UUU UUU	UUU UUU			PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	YYY YYY
UUU UUU	UUU UUU	EEE		PPF PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	SSSSSSSSSSS SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$ \$\$\$	YYY YYY
UUU	ŬŬŬ	ĔĔĔ	ήήή	PPP PPP	\$\$\$	YYY YYY
ŬŬŬ	ŬŬŬ	ĔĔĔ	İİİ	PPP PPP	ŠŠŠ	'''YYY YYY'''
ŬŬŬ	ŬŬŬ	ĔĔĔ	ŤŤŤ	PPP PPP	ŠŠŠ	ÝÝÝ ÝÝÝ
UUU	UUU	ÉEÉ	TTT	PPP PPP	ŠŠŠ	YYY YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEEE	ŢŢŢ	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEE	ŢŢŢ	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
	JUUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
UUUUUUU	JUUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY

\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$ \$\$ \$\$ \$\$\$ \$\$ \$\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	000000 00 00 00 00	7777777 77777777 77 77 77 77 77 77 77 7	
		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$						

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```
.TITLE SATSSSO7 - SATS SYSTEM SERVICE TESTS (SUCC S.C.)
.IDENT 'V04-000'
ŎŎŎŎ
0000
                     .DEFAULT DISPLACEMENT, WORD .ENABLE SUPPRESSION
0000
0000
0000
0000
                COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT_CORPORATION, MAYNARD, MASSACHUSETTS.
0000
0000
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                AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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                SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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                                   ********************************
0000
0000
0000
0000
            ; FACILITY:
                              SATS SYSTEM SERVICE TESTS
        32
33
34
35
0000
0000
            : ABSTRACT:
                              The SATSSSO7 module tests the execution of the following
0000
                              VMS system services:
0000
        36
37
0000
                              SCREMBX
0000
                              $DELMBX
0000
0000
              ENVIRONMENT: User mode image.
0000
                              Needs IMPMBX and PRMMBX privilege.
        40
0000
        41
0000
        42
              AUTHOR: Paula Tirak,
                                                         CREATION DATE: SEPTEMBER, 1979
0000
0000
        44
              MODIFIED BY:
0000
0000
        46
                     V03-005 LDJ0002
                                                Larry D. Jones,
                                                                           08-May-1984
        47
                              fixed bug in V03-004.
0000
0000
        49
0000
                     V03-004 LDJ0001
                                                Larry D. Jones,
                                                                          23-Aug-1983
0000
                              Converted to new logical name length limit of 255.
        51:
0000
        52
53
54
55
56 :--
0000
                     V03-003 KDM0002
                                                                           28-Jun-1982
                                                Kathleen D. Morse
0000
                              Added $10DEF, $PRDEF, $PSLDEF, and $SSDEF.
```

0000 0000 0000

(1)

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                       58
59
                                     .SBTTL DECLARATIONS
            0000
                       60
                          ; MACRO LIBRARY CALLS
             ŎŎŎŎ
                       61 ;
             ŎŎŎŎ
                      62
                                      .LIBRARY /SYS$LIBRARY:STARLET.MLB/
             ŎŎŎŎ
                                     SDIBDEF
                                                                                 device information block definitions
             ŎŎŎŎ
                      64
                                     $DSCDEF
                                                                                string descriptor definitions
             ŎŎŎŎ
                                     SIODEF
                                                                                i/o function code definitions
             ŎŎŎŎ
                      66
67
                                     $PRDEF
                                                                                processor register definitions
             ŎŎŎŎ
                                     $PRVDEF
                                                                                privilege name definitions
                      68
69
70
             ŎŎŎŎ
                                    $PSLDEF ; program status longword definitions $SFDEF ; stack frame definitions $SHR_MESSAGES UETP,116,<<TEXT,INFO>> ; UETP$_TEXT_definition
             ŏŏŏŏ
             ŏŏŏŏ
                      71
72
73
             ŎŎŎŎ
                                                                              ; system status code definitions ; SIS definitions
                                     $SSDEF
             0000
                                     $STSDEF
            0000
                                     SUETPDEF
                                                                              ; UETP message definitions
            0000
                      75 : Equate
76 :
77 WARNING
            0000
                          : Equated symbols
            0000
0000000
                                                                              ; warning severity value for msgs
                      78 SUCCESS
79 ERROR
00000001
                                                                                success
                                                                              : error
```

0000 0000 0000 0000 0000 0000 0000 0000 00000002 80 INFO 00000004 81 SEVERE = 4 82 MBBUF 83 HIMSG = 102400000400 00002000 = 8192 00000001 84 LOMSG = 1 00000100 85 BUF_SIZ_S 86 BUF_SIZ_G = 256 00000400 =1024 87 ENABLE 0000001 = 1 0000000 0000 88 DISABLE = 0 = 256 89 TEXT_BUFFER 00000100 0000 90 0000 91 0000

; MACROS

92 93

0000 0000

; MBX max. size for messages ; size for _S form ; size for _G form for SETPRV calls

. .

; information "

; fatal

misc. message manipulations

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```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 DECLARATIONS 5-SEP-1984 04:29:56
SATSSS07
                                                                                                                                VAX/VMS Macro V04-00
V04-000
                                                                                                                                                                               (1)
                                                                                                                                [UETPSY.SRC]SATSSSO7.MAR:1
                                             00000000
                                                                            .PSECT RODATA, RD, NOWRT, NOEXE, LONG
                                                  0000
                                                             96
                                                   ŎŎŎŎ
                                                             97
                                                                 ARGLST:
                                     00000001
                                                             98
                                                  0000
                                                                            .LONG
                                     00000BAC*
                                                             QQ
                                                  0004
                                                                            .ADDRESS SUPER_MODE
                                                   0008
                                                            100 CREMBX:
                    58 42 4D 45 52 43 00'
                                                  0008
                                                            101
                                                                            .ASCIC /CREMBX/
                                                  0008
                                                            102 CS1:
                                                  000f
                                                                                                                          failure messages
21 20 74 73 65
6E 20 65 63 69
70 65 74 73 20
                    54 00000017'010E0000'
                                                  000F
                                                                            .ASCID \Test !AC service name !AC step !UL failed.\
6E 20 65 63 69 76 72 65 73 20 43 41 70 65 74 73 20 43 41 21 20 65 6D 61 2E 64 65 6C 69 61 66 20 4C 55 21 20
                                                  001D
                                                  0029
0035
                                                  0041
                                                            104 CS2:
74 63 65 70 78 45 00000049'010E0000'
4C 58 21 20 3D 20 53 41 21 20 64 65
41 21 20 64 65 76 69 65 63 65 72 20
4C 58 21 20 3D 20 53
                                                  0041
                                                            105
                                                                            .ASCID \Expected !AS = !XL received !AS = !XL\
                                                  004F
                                                  005B
                                                  0067
                                                  006E
                                                            106 CS3:
74 63 65 70 78 45 00000076'010E0000'
                                                  006E
                                                            107
                                                                            .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
20 3D 20 42 55 21 53 41 21 20 64 65 64 65 76 69 65 63 65 72 20 4C 58 21 58 21 20 3D 20 42 55 21 53 41 21 20
                                                  0070
                                                  0088
                                                  0094
                                                  00A0
                                                  00A1
                                                            108 CS4:
72 69 75 71 65 52 000000A9'010E0000'
                                                            109
                                                  00A1
                                                                            .ASCID \Required channel not received.\
6E 20 6C 65 6E 6E 61 68 63 20 64 65 2E 64 65 76 69 65 63 65 72 20 74 6F
                                                  00AF
                                                  00BB
                                                  00c7
                                                            110 CS5:
77 20 65 64 6F 4D 000000CF'010E0000'
2E 53 41 21 20 73 61
                                                  00c7
                                                            111
                                                                            .ASCID \Mode was !AS.\
                                                  00D5
                                                           112 NSSSF:
113
                                                  00DC
75 73 2D 6E 6F 4E 6D 65 74 73 79 73
                        000000E4'010E0000'
                                                  00DC
                                                                            .ASCID \Non-subject system service failure of : !/!_
                                                                                                                                                            !AS\
6D 65 74 73 79 73 20 74 63 65 6A 62 69 61 66 20 65 63 69 76 72 65 73 20 2F 21 20 3A 20 66 6F 20 65 72 75 6C 53 41 21 20 20 20 20 20 20 5F 21
                                                  00EA
                                                  00F6
                                                  0102
                                                  010E
                                                  0119
                                                            114 DCLCMH:
                    48 4D 43 4C 43 44 00'
                                                  0119
                                                           115
                                                                            .ASCIC /DCLCMH/
                                             06
                                                  0119
                                                  0120
                                                            116 DELMBX:
                    58 42 4D 4C 45 44 00'
                                                  0120
                                                            117
                                                                            .ASCIC /DELMBX/
                                                  0120
                                             06
                                                            118 EM:
54 55 43 45 58 45 0000012F'010E0000'
                                                            119
                                                                            .ASCID /EXECUTIVE/
                                                  Ŏ135
                                     45 56 49
                                                   0138
                                                            120 EXP:
73 75 74 61 74 73 00000140'010E0000'
                                                  0138
                                                            121
                                                                            .ASCID \status\
                                                            122 KM:
123
                                                   0146
                                                                            .ASCID /KERNEL/
4C 45 4E 52 45 4B 0000014E'010E0000'
                                                  0146
                                                            124 LOGNAMG:
                                                  0154
37 30 53 5F 42 4D 0000015C'010E0000'
                                                  0154
                                                                            .ASCID
                                                                                      /MB_S07_G/
                                                  0162
                                                            126 LOGNAMG1:
127
                                                  0164
                                                  0164
0172
0175
37 30 53 5F 42 4D 0000016C'010E0000'
                                                                            .ASCID /MB_SO7_PG/
                                     47 50 SF
                                                            128 LOGNAMS:
```

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```

```
C 11
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
SATS$SO7
V04-000
                                                                                                                                                      (1)
37 30 53 5F 42 4D 0000017D'010E0000' 53 5F
                                           0175
0183
                                                   129
                                                                  .ASCID /MB_SO7_S/
                                                   130 LOGNAMS1:
                                           0185
37 30 53 5F 42 4D 0000018D'010E0000' 53 50 5F
                                           0185
                                                                  .ASCID /MB SO7 PS/
                                           0193
                                           0196
                                                   132 SYS_DEV:
                                                                                                               ; system disk descriptor
59 53 24 53 59 53 0000019E'010E0000'
45 43 49 56 45 44 53
                                           0196
                                                                 .ASCID /SYS$SYSDEVICE/
                                           01A4
                                           01AB
                                                   134 TMP_PRV_MASK:
                                                                                                                ; create temp mailbox priv
                                                   135
                                0008000
                                           01AB
                                                                           <1@PRV$V_TMPMBX>
                                                                  .LONG
                                0000000
                                           01AF
                                                   136
                                                                  .LONG
                                                   137 PRM_PRV_MASK:
138 .LONG
                                           01B3
                                                                                                                ; create perm mailbox priv
                                00000800
                                           01B3
                                                                           <1aPRV$V_PRMMBX>
                                                                  .LONG
                                0000000
                                           01B7
                                                    139
                                                                  .LONG
                                                   140 TMP_PRM_PRV_MASK:
                                           0188
                                                                                                                  create perm 🖁 temp pr:v
                                                                          <1aPRV$V_PRMMBX>!<1aPRV$V_TMPMBX>
                                0008800
                                           01BB
                                                                 .LONG
                                                   141
                                00000000
                                           01BF
                                                                  .LONG
                                                        GRP_PRV_MASK:
                                           0103
                                                                                                                : GRPNAM privilege mask
                                0000008
                                           01c3
                                                   144
                                                                           <1@PRV$V_GRPNAM>
                                                                  .LONG
                                00000000
                                                    145
                                           0107
                                                                  LONG
                                           01CB
                                                    146 CHANNEL_ZERO:
                                                                                                                ; MBX channel = 0
                                    0000
                                           01CB
                                                    147
                                                                  WORD
                                                   148 LEN_00_DESCR:
                                           01CD
                                    0000
                                           01CD
                                                   149
                                                                  .WORD
                                                                                                                ; zero length descriptor
                                                    150
                                                                          DSCSK_DTYPE_T
DSCSK_CLASS_S
                                       0E
                                           01CF
                                                                  .BYTE
                                       01
                                           01D0
                                                   151
                                                                  .BYTE
                                000001851
                                           01D1
                                                                  .ADDRESS LOGNĀMS1
                                                   153 LEN_256_DESCR:
                                           01D5
                                    0100
                                           01D5
                                                   154
                                                                  .WORD
                                                                                                                ; 60 char length descriptor
                                           01D7
                                                    155
                                                                          DSCSK_DTYPE_T
DSCSK_CLASS_S
                                       0E
                                           0108
                                                                  .BYTE
                                                                  ADDRESS LEN_256_NAME
                               000001E51
                                           0109
                                                   157
                                                   158 LEN_63_DESCR:
                                           O1DD
                                    003B
                                                   159
                                           01DD
                                                                                                                ; 59 char length descriptor
                                                                  .WORD
                                                                          DSC$K_DTYPE_T
                                           01DF
                                                    160
                                                                  .BYTE
                                       0E
                                           01E0
                                       01
                                                   161
                                                                          DSC$K CLASS S
                                                                  .BYTE
                                                                 .ADDRESS LEN_256_NAME
                                000001E51
                                           01E1
                                                   163 LEN_256_NAME:
                                           01E5
4F 4C 5F 41 5F 53 49 5F 53

4E 5F 58 4F 42 4C 49 41 4D

48 54 49 57 5F

5F 36 35 32 30 52 45 42 4D

49 5F 53 52 45 54 43 41 52
                                           01E5
                                                                 .ASCII /THIS_IS_A_LONG_MAILBOX_NAME_WITH/
                                           01F1
                               45
                                   4D
                                           01FD
                               55 4E
                                           0205
                                                   165
                                                                 .ASCII /_NUMBER0256_CHARACTERS_IN_IT/ ; CREMBX prefixes MBX$
                                           0211
                                           021D
0221
                               49
                                                   166
                                                                 .BYTE ^A/A/[196]
41'41'41'41'41'41'41'41'41'41'41'41'41
                                           022D
0239
41'41'41'41'41'41'41'41'41'41'41'41
                                           0245
41'41'41'41'41'41'41'41'41'41'41'41
                                           0251
41'41'41'41'41'41'41'41'41'41'41'41'
41'41'41'41'41'41'41'41'41'41'41'41'
41'41'41'41'41'41'41'41'41'41'41'41'41'
                                           0281
```

41'41'41'41'41'41'41'41'41'41'41'41'

41'41'41'41'41'41'41'41'41'41'41'41'41' 02A5

0299

```
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```

```
SATSSS07
V04-000
                                        - SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                                                               (1)
41'41'41'41'
                                                      167 ZERO_ADDR_DESCR:
168 .WORD S
                                                                                                                      : address 0 for ACCVIO err
                                       0009
                                         0E
                                                       169
                                                                               DSCSK_DTYPE_T
DSCSK_CLASS_S
                                                                      .BYTE
                                         ÕĨ
                                                       170
                                                                      .BYTE
                                  00000000
                                                                      LONG
                                                      172
173
                                                           D_LOGIC_NAME:
                                       0005
                                                                      . WORD
                                                                      BYTE DSCSK_DTYPE_T
BYTE DSCSK_CLASS_S
ADDRESS_LOGIC_NAME
                                                       174
                                         0E
                                                       175
                                         01
                                  00000004
                                                      177 D_EQUIV_NAME:
                                       0005
                                                      178
                                                                      -WORD
                                                                               DSCSK_DTYPE_T
DSCSK_CLASS_S
                                         0E
                                                       179
                                                       180
                                                                      .BYTE
                                  00000091
                                                                      ADDRESS EQUIT NAME
                                                           D MBX LOGIC NAME:
                                       0009
                                                       183
                                                                      . WORD
                                                                                                            ; for prefixing 'MBX$'
                                                                     .BYTE DSC$K_DTYPE_T
.BYTE DSC$K_CLASS_S
.ADDRESS_MBX_EOGIC_NAME
                                                       184
                                         0E
                                         01
                                                       185
                                              0300
                                  00000000
                                              0301
                                                       186
                                                       187 MBA:
                                              0305
           41 42 4D 0000030D'010E0000
                                                       188
                                              0305
                                                                      .ASCID \MBA\
                                                       189 MSG1:
65 74 61 65 72 43 00000318'010E0000'
61 77 20 78 6F 62 6C 69 61 6D 20 64
6E 61 6D 72 65 70 20 74 6F 6E 20 73
                                                       190
                                                                      .ASCID /Created mailbox was not permanent./
                              2E 74 6E 65
                                              0336
                                                      191 MSGVEC:
                                 00000003
                                                      192
                                                                      .LONG
                                                                                                             : PUTMSG message vector
                                                                               UETP$_TEXT
                                                                      .LONG
                                  00000001
                                                       194
                                                                      .LONG
                                  00002580
                                                       195
                                                                      .ADDRESS MESSAGEL
                                                      196 PROT:
                                                                                                            ; protection mask for $CREMBX
4B 53 4D 4F 52 50 00000352'010E0000'
                                                       197
                                                                      .ASCID /PROMSK/
                                                       198
    52 45 50 55 53 00000360'010E0000'
                                                       199
                                                                      .ASCID /SUPER/
                                                       200 TEST_DATA:
                                  00000001
                                                       201
                                                                     A=1
                                                                      .REPT
                                                                               BUF_SIZ_G/2
                                                       203
                                                                      WORD
                                                       204
                                                                      A=A+1
                                       0001
                                                       205
                                                                      .ENDR
                                                       206 TEST_MOD_BEGIN:
                                                                                                            ; start end and fail messages
                      6E 75 67 65 62 00
                                                                      TASCIC /begun/
                                         05
                                              0765
                                                      208 TEST_MOD_FAIL:
209 .ASCIC /failed/
                   64 65 60 69 61 66 00'
                                              076B
                                              076B
                                         06
                                                       10 TEST_MOD_NAME:
211 .ASCIC /SATSSS07/
                                                                                                            ; needed for SATSMS message
           37 30 53 53 53 54 41 53
                                         08
                                                       212 TEST_MOD_NAME_D:
213
                                                                     TASCID /SATSSSO7/
53 53 53 54 41 53 00000783'010E0000'
                                              077B
                                                                                                            ; module name
```

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1 Page 6 (1)

37 30 0789 0788 60 75 66 73 73 65 63 63 75 73 00' 0788

0A 078B

72 65 73 75 0000079E'010E0000' 0796 216 UM: 217

.ASCID \user\

; mode messages

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```
219
220
221
223
223
224
                  07A2
                                                R/W PSECT
                                        .SBTTL
             00000000
                                        .PSECT
                                                 RWDATA, RD, WRT, NOEXE, LONG
                                        ** The following 2 declaratives must be CONTIGUOUS !! **
                              MBX_LOGIC_NAME:
                                        ASCII /MBX$/
   24 58 42 4D
                                                                            ; for $CREMBX call
                              LOGIC_NAME:
                                                                            ; for $CRELOG sys service
42 45 4D 41 4E
                                        .ASCII /NAMEB/
                              EQUIV_NAME:
41 45 4D 41 4E
                                        .ASCII /NAMEA/
                              CREATED_FLAG:
                  000E
                                                                            ; signalling successful mailbox creation
             00
                                        .BYTE
                                                                            ; for delete service
                  000F
                  ÖÖÖF
                              ARGLST1:
                                                                            ; argument list for BUF_CHECK
       000003051
                  000F
                                        .ADDRESS MBA
       00000023
                  0013
                                        .BLKL
                              BUF:
       00000073
                                        .BLKB
                              BUFFER:
      00001FB3
                                        .BLKB
                                                 8000
                          245 246 247
                              CHM_CONT:
       00000000
                                        .LONG
                                                                            ; change mode continue address
                  1FB7
                              CRE:
                  1FB7
                                       $CREMBX 0,MBCHANG,0,0,0,0,0
                                                                            : CREMBX paramter list
                          248
249
250
                              CTRSTR:
                  1FD7
      00000084
                                        .LONG 132
.ADDRESS .+4
.BLKB 132
                  1FD7
                                                                            ; same as above
      00001FDF '
                  1FDB
      00002063
                  1FDF
                          CURRENT_TC:
                  2063
      00000000
                  2063
                                        .LONG
                                                                            ; ptr to current test case
                  2067
                                        .ALIGN LONG
                                                                            ; put it on a long word boundry
                  2068
                              DEL:
                  2068
                                       $DELMBX MBCHANG
                                                                            ; DELMBX parameter list
                              GETBUF:
                  2070
2074
      00000084
                                        .LONG 132
                                                                            ; same as above
      00002078
000020FC
                                        .ADDRESS .+4
.BLKB 132
                  20F C
                          261
                              MBCHAN:
                          262
263
           0000
                                        .WORD
                                                 O
                                                                            ; channel for the $GETCHN
                              MBCHANG:
                                                                            ; _G mailbox channel
                          264
265
           0000
                                        . WORD
                              MBCHANS:
                                                                            ; S mailbox channel
           0000
                          266
267
                                        .WORD
                              MBCHAND:
                                                                            ; _D mailbox channel for deletions
           0000
                                        .WORD
                                                 0
                   2104
                          569
                              MBCHAR:
       00000074
                  2104
                                                DIB$K_LENGTH
                                        .LONG
                                                                            : length of PROMSK for $GETCHN
       00002100
                  2108
                                        .ADDRESS .+4
                              MBCHR:
                   210C
                  210c
       00002180
                                        .BLKB
                                                DIB$K_LENGTH
                                                                            : buffer for PROMSK in $GETCHN
                  2180
2180
                              MBX_BUF:
       00002580
                                        .BLKB
                                                BUF_SIZ_G
                                                                            ; buffer for QIO reads
```

```
SA
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 R/W PSECT 5-SEP-1984 04:29:56
SATSSS07
V04-000
                                                                                                                      VAX/VMS Macro V04-00
                                                                                                                                                          Page
                                                                                                                                                                 8 (1)
                                                                                                                      [UETPSY.SRC]SATSSSO7.MAR; 1
                                                      276 MESSAGEL:

277

278

279

280 ML:

281

282

283 MOD_MSG_CC

284

285 MODE:

286

287 MSGL:

288
                                 00000000
00000023'
00002078'
                                                                      .LONG
                                                                                                              ; message desc.
                                                                      .ADDRESS BUF
                                                                      .ADDRESS GETBUF+8
                                  00000000
                                                                                0
                                                                      .LONG
                                                                                                              : desc. for BUF CHECK routine
                                                                       ADDRESS GETBUF+8
                                                            MOD_MSG_CODE:
                                  007480D9
                                                                      .LONG
                                                                                UETP$_SATSMS
                                                                                                              ; test module message code for putmsq
                                  0000000
                                                                      .LONG
                                                                                                              ; current mode string pointer
                                  00000050
                                                                      .LONG
                                                                                                              : buffer desc.
                                  000000231
                                                       289
                                                                      . ADDRESS BUF
                                                       290
291
292
293
                                                            MSGVEC1:
                                                                                                              ; PUTMSG message vector
                                  00000003
                                                                      .LONG
                                                                                UETP$_TEXT
                                                                      .LONG
                                  00000001
                                                                      .LONG
                                                       294
295
296
297
                                  0000000
                                               2580
                                                                      .LONG
                                                           PB:
                                 00000074
000025BC'
00002630
                                                                      .LONG
                                                                                DIBSK_!,ENGTH
                                               25B8
                                                                      .ADDRESS .+4
                                                                      .BLKB
                                                                                DIB$K_LENGTH
                                                       299
                                                           PRIVMASK:
                      0000000 0000000
                                                                       QUAD.
                                                                                                              ; priv. mask
                                                       301
                                                            PRVHND1:
                                  0000000
                                                                      .LONG
                                                                                                              ; previous handler address 1
                                                       303
                                                            PRVPRT:
                                               263C
                                                       304
                                                                      .BYTE
                                                                                                              ; protection return byte for SETPRT
                                                       305
                                                           REG:
                                              263D
264B
74 73 69 67 65 72 00002645'010E0000' 52 20 72 65
                                                       306
                                                                      .ASCID
                                                                               \register R\
                                                           REG_SAVE_AREA:
                                  0000268B
                                                                                15
                                                                      BLKL
                                                                                                              ; register save area
                                                       309
                                                           REGNUM:
                                  00000000
                                                                      .LONG
                                                                                                              ; register number
                                                       311
                                                            RETADR:
                                  00002697
                                                                       .BLKL
                                                                                                              ; returned address's from SETPRT
                                               2697
                                                            SERV_NAME:
                                  0000000
                                               2697
                                                                      .LONG
                                                                                                              ; service name pointer
                                               269B
                                                       315
                                                           STATUS:
                                  00000000
                                               269B
                                                                      .LONG
                                                            TMD_ADDR:
                                  000007651
                                               269F
                                                                      .ADDRESS TEST_MOD_BEGIN
                                                           TMN_ADDR:
                                  000007721
                                                                      .ADDRESS TEST_MOD_NAME
                                                            TPID:
                                               26A7
                                  0000000
                                                                      .LONG
                                                                                                              : PID for this process
                                               26A7
                                              26AB
26AB
                                                            MSG1L:
                                  00000100
                                                                      .LONG
                                                                               TEXT_BUFFER
                                                                                                              ; Buffer #1 desc.
                                              26AF
                                  000026B3'
                                                                      .ADDRESS BUFT
                                                       326
327
328
329
330
331
                                               26B3
                                               26B3
26B3
27B3
                                                            BUF 1:
                                  000027B3
                                                                      .BLKB
                                                                                TEXT_BUFFER
                                              2783
2783
                                                            MESSAGE1L:
                                  0000000
                                                                      .LONG
                                                                                                              ; Message length
```

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 9
R/W PSECT 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1 (1)

000026B3' 27B7 27BB 0000 0100 27BB 00000073' 27BF ADDRESS BUF1
333 BUFFER_PTR:
.WORD TEXT B
.ADDRESS BUFFE .WORD TEXT BUFFER, 0
.ADDRESS BUFFER

; Fake .ASCID buffer for misc. strings ; A word for length, a word for desc.

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00
                                                         5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR:1
                                                                                                                                     (1)
 00000000
                                 .PSECT SATSSSO7, RD, WRT, EXE, LONG
      0000
                                 SBTTL SATSSSOT
                     ; ++ ; FUNCTIONAL DESCRIPTION:
       ŎŎŎŎ
       0000
       0000
                                 After performing some initial housekeeping, such as
                        printing the module begin message and acquiring needed privileges, the system services are tested in each of their normal conditions. Detected failures are identified and an error message is printed
       0000
       0000
       0000
                345
       0000
                        on the terminal. Upon completion of the test a success or fail
       0000
                        message is printed on the terminal.
       0000
       0000
                        CALLING SEQUENCE:
       0000
                350
       0000
                                $ RUN SATSSSO7 ... (DCL COMMAND)
       0000
                352
353
       0000
                        INPUT PARAMETERS:
       0000
                354
355
       0000
                                none
       0000
                356
       0000
                357
                        IMPLICIT INPUTS:
       0000
                358
      0000
                359
                                none
      0000
                360
       0000
                        OUTPUT PARAMETERS:
                361
                362
363
      0000
      0000
                                none
      0000
      0000
                365
                        IMPLICIT OUTPUTS:
      0000
0000
0000
                366
                367
                                Messages to SYS$OUTPUT are the only output from SATSSSO7.
                368
                                They are of the form:
      0000
                369
                                           XUETP-S-SATSMS, TEST MODULE SATSSSO7 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSSO7 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSSO7 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
      0000
0000
0000
0000
0000
0000
0000
                370
                371
                372
373
                375
                     : COMPLETION CODES:
                376
                377
                                The SATSSSO7 routine terminates with a $EXIT to the
                378
                                operating system with a status code defined by UETP$_SATSMS.
      0000
      0000
0000
0000
                     : SIDE EFFECTS:
                380
                381
                382
383
                                none
      0000
                384
      0000
                385
      0000
                386
                                TEST_START SATSSS07
                                                                                       ; let the test begin
```

```
.SBTTL CREMBX TESTS
                                            003D
                                                       389
                                            003D
                                            003D
                                                            ; $CREMBX tests
                                            003D
                                            003D
                                                            : Test temporary mailbox.
                                            003D
                                                      395
396
397
                                            003D
                                                                                     W^CREMBX,W^SERV_NAME
      2697'CF
                      0008'CF
                                            003D
                                     DE
                                                                         MOVAL
                                                                                                                                     : set service name
                                                                         MOVAL WOUM, WOMODE
$CREMBX_S PRMFLG=#0,-
      25981CF
                      07961CF
                                     DĒ
                                            0044
                                                                                                                                       : set mode
                                            004B
                                            004B
                                                      399
                                                                                        CHAN = W^MBCHANS, -
                                                                                                                                     ; try s form
; set the max, message size
                                                                                        MAXMSG=#MBBUF,-
BUFQUO=#BUF_SIZ_S,-
LOGNAM=W^LOGNAMS
                                            004B
                                                      400
                                            004B
                                                      401
                                                                                                                                      ; set the buffer quota
                                            004B
                                                      402
                                                                                                                                      try s form check success
                                                                        FAIL_CHECK SS$_NORMAL ; check success

PUSHL #SS$_NORMAL

CALLS #1,WREG_CHECK

CLRL W^CRE+CREMBX$_PRMFLG ; make it temporary

MOVL #MBBUF,W^CRE+CREMBX$_MAXMSG ; set the max. message

MOVL #BUF_SIZ_G,W^CRE+CREMBX$_BUFQUO ; set the buffer quota

MOVAL W^LOGNAMG,W^CRE+CREMBX$_LOGNAM ; set the lognam

*CDEMBY G_LACRE
                                            0060
                                                      403
                                           0060
              0E20'CF
                                           006E
0073
                                     fB
                      1FBB'CF
                                     D4
1FC3'CF
                                           0077
                                                                                                                                      ; set the max. message size
               00000400 8F
                                     ĎO
                                                      405
1FC7'CF
               00000400 BF
                                           0080
                                     D0
                                                      406
      1FD3'CF 0154'CF
                                            0089
                                     DE
                                                      407
                                                                         SCREMBX_G W^CRE
FAIL_CHECK SSS_NORMAL
                                            0090
                                                      408
                                                                                                                                      : try g form
: check success
                                            0099
                                                      409
                                                                                     PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
#0, W^VERIFY_MBX
#0, W^ERLBUF_DUMP
                                            0099
                                     DD
              0E20'CF
                             01
                                     FB
                                            009B
              QCEC'CF
                             00
                                     FB
                                           OAO
                                                      410
                                                                                                                                     ; read, write, verify, delete MBX
              OC3D'CF
                             00
                                     FB
                                           00A5
                                                                         CALLS
                                                      411
                                                                                                                                      ; dump errors
                                            DOAA
                                                      412 :+
                                           DOAA
                                           00AA
                                                      414; Test permanent mailbox
                                           DOAA
                                                      415 ;
                                           DOAA
                                                      416 :-
                                           AA00
                                                      417
                                                                         NEXT_TEST
                                           DOAA
                                           DOAA
                                                            STP1:
                                                                                                 #1,W^CURRENT_TC
              2063 CF
                             01
                                           DOAA
                                     D0
                                                                                     MOVL
                                                                                     PUSHL #0
CALLS #1, WAREG SAVE
WACREMBX, WASERV_NAME
                             00
                                           OOAF
                                     DD
             0E16'CF
                             01
                                     FB
                                           00B1
      2697'CF 0008'CF
                                           00B6
                                                                         MOVAL
                                     DE
                                                                                                                                      : set service name
                                                                                     W^UM,W^MODE
      25981CF
                     07961CF
                                     ĎĒ
                                           OOBD
                                                      419
                                                                         MOVAL
                                                                                                                                       ; set mode
                                                                        SCREMBX_S PRMFLG=#1,-
CHAN = W^MBCHANS,-
                                                      420
421
423
423
424
425
                                           0004
                                           00C4
                                                                                        MAXMSG=#MBBUF, -
BUFQUO=#BUF_SIZ_S, -
LOGNAM=W^LOGNAM51
                                           0004
                                            00C4
                                            00C4
                                                                                                                                      ; try s form
; check success
                                                                        FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
$DASSGN_S CHAN=W^MBCHANS
$ASSIGN_S DEVNAM=W^LOGNAMS1, -
CHAN =W^MBCHANS
CMPL RO,#SS$_NORMAL
                                            00E5
                                           ÖÖE 5
                                     DD
              0E20'CF
                             01
                                     FB
                                           00E7
                                                     426
427
428
429
430
431
432
10$:
                                            00EC
                                                                                                                                       : deassign mailbox
                                            00F8
                                                                                                                                      : try to reassign MBX
: is the MBX permanent?
: br if yes
                                            00F8
                             50
02
50
                                           0109
                      01
                                     D1
                                     13
                                           0100
                                                                         BEQL
                                                                                     10$
                                     11
                                           010E
0110
                                                                         BRB
                                                                                     20$
                                                                                                                                       ; print perm. MBX error
                             01
                                     D0
                                           0110
                                                                                     #1,W^CRE+CREMBX$_PRMFLG
              1FBB'CF
                                                                         MOVL
                                                                                                                                   ; set prmflq for perm. MBX
```

SATSSS07 V04-000	- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 CREMBX TESTS 5-SEP-1984 04:29:56	VAX/VMS Macro V04-00 Page 13 [UETPSY.SRC]SATSSS07.MAR;1 (1)
1FC3'CF 00000400 8F 1FC7'CF 00000400 8F 1FD3'CF 0164'CF	DO 0115 434 MOVL #MBBUF, W^CRE+CREMBX\$ MAXMSG DO 011E 435 MOVL #BUF_SIZ_G, W^CRE+CREMBX\$_BUFQU DE 0127 436 MOVAL W^LOGNAMG1, W^CRE+CREMBX\$_LOGNA 012E 437 \$CREMBX_G W^CRE 0137 438 FAIL_CHECK_SS\$_NORMAL	; set the max. message size O ; set the buffer quota_G M ; set the lognam ; try _G form ; check success
0E20'CF 01	DD 0137 PUSHL #SS\$_NORMAL FB 0139 CALLS #1,W*REG_CHECK 013E 439 \$DASSGN_S CHAN=W^MBCHANG 014A 440 \$ASSIGN_S DEVNAM=W^LOGNAMG1	; deassign the channel
01 50	014A 441	<pre>; assign the mailbox ; is the MBX permanent? ; br if yes</pre>
0310'CF 01	DF 0160 445 PUSHAL W^MSG1 FB 0164 446 CALLS #1,W^PRINT_FAIL 0169 447 30\$:	; print failure
0CFC'CF 00 0C3D'CF 00	FB 0169 448	<pre>; read,write,verify,delete MBX ; dump errors</pre>
	0173 451;	
2697'CF 0120'CF	0173 455 \$ASSIGN_S DEVNAM=W^LOGNAMS1,- 0173 456 CHAN =W^MBCHANS DE 0184 457 MOVAL W^DELMBX.W^SERV NAME	<pre>; reassign the mailbox_S ; set service name</pre>
0E16'CF 01		<pre>; save the registers ; delete the _S mailbox</pre>
0E20'CF 01	FB 01A0 CALLS #1,WREG_CHECK 01A5 462 \$ASSIGN_S DEVNAM=WALOGNAMG1,- 01A5 463 CHAN =WAMBCHANG	; reassign the mailbox_S
206C'CF 20FE'CF	3C 0186 464 MOVZWL W^MBCHANG,W^DEL+DELMBX\$_CHAN 018D 465 \$DELMBX_G W^DEL 01C6 466 FAIL_CHECK_SS\$_NORMAL DD 01C6 PUSHL #\$S\$_NORMAL	; delete the _G mailbox
0E20'CF 01	FB 01C8 CALLS #1,W*REG_CHECK	
	01CD 471;- 01CD 472 NEXT_TEST 01CD	
2063'CF 02 00 0E16'CF 01	01CD STP2: DO 01CD MOVL #2,W^CURRENT_TC DD 01D2 PUSHL #0 FB 01D4 CALLS #1,W^REG_SAVE DE 01D9 473 MOVAL W^CREMBX,W^SERV_NAME	
2697'CF 0008'CF 2598'CF 0796'CF	DE 01D9 473 MOVAL W"CREMBX,W"SERV_NAME DE 01E0 474 MOVAL W"UM,W"MODE 01E7 475 \$CREMBX_S PRMFLG=#0,- 01E7 476 CHAN =W"MBCHANS,-	; set service name ; set mode
	01E7 477 MAXMSG=#LOMSG,- 01E7 478 BUFQUO=#BUF_SIZ_S,- 01E7 479 LOGNAMS	<pre>; set the max. message size ; set the buffer size ; try _s form</pre>

SATSSS07 V04-000	- SATS SYSTEM SERVICE CREMBX TESTS	M 11 TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 V 5-SEP-1984 04:29:56 D	/AX/VMS Macro V04-00 Page 14 UETPSY.SRC]SATSSS07.MAR;1 (1)
0E20'CF 01	0204 480 DD 0204 FB 0206	FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1,W*REG_CHECK	; check success
1FBB'CF 1FC3'CF 01 1FC7'CF 00000400 8F 1FD3'CF 0154'CF	FB 0206 020B 481 D4 020B 482 D0 020F 483 D0 0214 484 DE 021D 485 0224 486 022D 487 DD 022D	CLRL W^CRE+CREMBX\$_PRMFLG MOVL #LOMSG, W^CRE+TREMBX\$_MAXMSG MOVL #BUF_SIZ_G, W^CRE+CREMBX\$_BUFQUO MOVAL W^LOGNAMG, W^CRE+CREMBX\$_EOGNAM \$CREMBX_G W^CRE FAIL_CHECK_SS\$_NORMAL	; make it temporary ; set the max. message size ; set the buffer quota ; move lognam in ; try g form ; check success
0E20'CF 01	DD 022D FB 022F 0234 488 0234 489 0234 490	PUSHL #SS\$_NORMAL CALLS #1,WREG_CHECK \$QIO_S CHAN=W^MBCHANS,- FUNC=#IO\$_WRITEVBLK,- P1 =W^TEST_DATA,-	
0100 8F 00 2180'CF 00 2180'CF	0234 491 2c 0253 492 025c	P2 =#LOMSG 700, #256, W^MBX_BUF, #0, #256, W^MBX_BUF	; write to the mailbox_S ; zero the MBX buffer
56 2180'CF 57 0365'CF 58 01 20FC'CF 2100'CF 0C7A'CF 00	025F 493 025F 494 025F 495 025F 496 DE 027E 497 DE 0283 498 DO 0288 499 BO 028B 500 FB 0292 501 0297 502 02A3 503 02A3 504	\$QIO_S CHAN=W^MBCHANS,- FUNC=#IO\$_READVBLK,- P1 =W^MBX_BUF,- P2 =#LOMSG MOVAL W^MBX_BUF,R6 MOVAL W^TEST_DATA,R7 MOVL #LOMSG,R8 MOVW W^MBCHANS,W^MBCHAN CALS #0,W^BUF_CHECK \$DASSGN_S CHAN=W*MBCHANS \$QIO_S CHAN=W^MBCHANG,- FUNC=#IO\$_WRITEVBLK,- P1 =W^TEST_DATA,- P2 =#LOMSG	; read from the mailbox ; set the MBX buffer ; find the master data ; get the channel number ; check the data ; deassign the channel
0400 8F 00 2180'CF 00 2180'CF	2C 02C2 507 02CB	MOVC5 #0,W^MBX_BUF,#0,#1024,W^MBX_BUF	<pre>; write to the mailbox_G ; zero the MBX buffer</pre>
56 2180'CF 57 0365'CF 58 01 20FC'CF 20FE'CF 0C7A'CF 00	02CE 508 02CE 509 02CE 510 02CE 511 DE 02ED 512 DE 02F2 513 DO 02F7 514 BO 02FA 515 FB 0301 516 0306 517 0312 518 ;	\$QIO_S CHAN=W^MBCHANG, - FUNC=#IO\$ READVBLK, - P1 =W^MBX BUF, - P2 =#LOMSG MOVAL W^MBX_BUF, R6 MOVAL W^TEST_DATA, R7 MOVL #LOMSG, R8 MOVW W^MBCHANG, W^MBCHAN CALLS #O, W^BUF_CHECK \$DASSGN_S CHAN=W^MBCHANG	<pre>; read from the mailbox ; set the MBX buffer ; find the master data ; get the channel number ; check the data ; deassign the channel</pre>
2063'CF 03 00 0E16'CF 01 2697'CF 0008'CF 2598'CF 0796'CF	02CE 508 02CE 509 02CE 510 02CE 511 DE 02ED 512 DE 02F2 513 DO 02F7 514 BO 02FA 515 FB 0301 516 0312 519 Tes 0312 521 522 0312 522 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523 0312 523 523	BUFQUO using BUFQUO = 256 using _S form BUFQUO = 512 using _G form NEXT_TEST MOVL #3, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG SAVE MOVAL W^CREMBX, W^SERV_NAME MOVAL W^UM, W^MODE	; set service name ; set mode

```
N 11
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 15
S-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1 (1)
SATSSS07
V04-000
                                                                                                                                                                                                  (1)
                                                                                    $CREMBX_S PRMFLG=#0,-
                                                                                                   CHAN =WAMBCHANS,-
                                                                                                   MAXMSG=#MBBUF, -
BUFQUO=#BUF_SIZ_S, -
                                                                                                   LOGNAM=W^LOGNAMS
                                                                                                                                               ; try s
; check success
                                                                                    FAIL_CHECK SS$_NORMAL
                                                                                               PUSHL WSS NORMAL
CALLS W1, WREG CHECK
WCRE+CREMBXS PRMFLG
                                                       034D
                           0E20'CF
                                          01
                                                 FB
                                                       034F
                                                                  532
533
534
535
536
537
                                  1FBB'CF
                                                 D4
                                                       0354
                                                                                    CLRL
             1FC3'CF
1FC7'CF
                                                                                               #MBBUF, W^CRE+CREMBX$ MAXMSG ; set the max. message size #BUF S:: S*2, W^CRE+CREMBX$ BUFQUO; set the buffer quota W^LOGNAP. W^CRE+CREMBX$_LOGNAM
                            00000400 8F
                                                 DO
                                                       0358
                                                                                    MÖVL
                            00000200 8F
F 0154'CF
                                                 DO
                                                       0361
                                                                                    MOVL
                   1FD3'CF
                                                 DE
                                                       036A
                                                                                    MOVAL
                                                                                    SCREMBX G WACRE FAIL CHECK SSS_NORMAL
                                                        0371
                                                                                                                                               ; try G form
; check success
                                                        037A
                                                                                                PUSHL #SS$ NORMAL
CALLS #1, W REG_CHECK
                                                        037A
                                                 DD
                           0E20'CF
                                          01
                                                 FB
                                                       0370
                                                        0381
                                                                                    SQIO S CHAN=WAMBCHANS .-
                                                                                   FUNC=#IO$_WRITEVBLK,-
P1 =W^TEST_DATA,-
P2 =#BUF_SIZ_S ; write to the mailbox_S
MOVC5 #0,W^MBX_BUF,#0,#256,W^MBX_BUF ; zero the mailbox buffer
                                                                  539
                                                        0381
                                                       0381
                                                                  540
                                                       0381
                                                                  541
                           2180'CF 00
                                                       03A4
    0100 BF
                                                 20
                                  2180'CF
                                                       03AD
                                                                                   $QIO_S CHAN=W^MBCHANS,-
FUNC=#IO$ READVBLK,-
P1 =W^MBX BUF,-
P2 =#BUF_$IZ_$

MOVAL W^MBX BUF,R6

MOVAL W^TEST_DATA,R7

MOVL #BUF_$IZ_$,R8

MOVW W^MBCHANS,W^MBCHAN
CALLS #O,W^BUF_CHECK

$DASSGN $ CHAN=W^MBCHANS
                                                       0380
                                                        0380
                                                        03B0
                                                        03B0
                                                                                                                                               ; read from the mailbox_S
                                  2180'CF
0365'CF
                                                                                                                                                ; set the MBX buffer
                                                       0303
                          57
                                                 DE
                                                       0308
                                                                                                                                                : find the master data
                     58 00000100 8F
                                                 DŌ
                                                       03DD
                   20FC'CF____2100'CF
                                                 BÓ
                                                       03E4
                                                                                                                                               ; get the channel number
                           OC7A'CF
                                                 FR
                                                       03EB
                                                                                                                                               ; check the data
                                                                                    $DASSGN_S CHAN=W*MBCHANS
MOVW W*MBCHANS,W*MBCHAN
                                                       03F0
                                                                                                                                               ; deassign the channel
                   20FC'CF 2100'CF
                                                 B0
                                                       03FC
                                                                                                                                                ; get the channel number
                                                                                    $QIO_S CHAN=W^MBCHANG.-
                                                       0403
                                                                                               FUNC=#10$_WRITEVBLK,-
P1 =W^TEST_DATA,-
P2 =#BUF_SIZ_S*2 ; write to the mailbox_G
#0,W^MBX_BUF,#0,#512,W^MBX_BUF ; zero the mailbox buffer
                                                                  555
                                                       0403
                                                       0403
                                                       0403
                                                                  557
    0200 8F
                                                       0426
                   00
                           2180'CF 00
                                                                                    MOVC5
                                  2180°CF
                                                       042F
                                                       0432
                                                                                    $QIO_S CHAN=W^MBCHANG,-
                                                                                                FUNC=#10$_READVBLK,-
                                                                  560
                                                                                            PUNC=#IUS READVBLK, -
P1 =W^MBX_BUF, -
P2 =#BUF_$IZ_$*2
W^MBX_BUF_R6
W^TEST_DATA,R7
#BUF_$IZ_$*2,R8
W^MBCHANG,W^MBCHAN
#0,W^BUF_CHECK
                                                       0432
                                                                  561
                                                       0432
                                                                                                                                               ; read from the mailbox_G
                                  2180'CF
0365'CF
                                                                                    MOVAL
                                                                                                                                               ; set the mailbox buffer ; find the master data
                           56
57
                                                 DE
                                                       045A
                                                                                    MOVAL
                     58 00000200 8F
                                                 DO
                                                       045F
                                                                                    MOVL
                   20FC'CF 20FE'CF
                                                                                                                                               ; get the channel number
                                                 B0
                                                       0466
                                                                                    MOVU
                           0C7A'CF 00
                                                                  567
                                                 FB
                                                       046D
                                                                                    CALLS
                                                                                                                                               ; check the data
                                                                                    $DASSGN_S CHANEW MBCHANG
                                                       0472
                                                                                                                                               ; deassign the channel
                                                       047E
                                                                  569
                                                       047E
                                                                        ; Test PROMSK (protection mask)
                                                       047E
                                                        047E
                                                        047E
                                                                                    NEXT_TEST
                                                        047E
                                                        047Ē
                                                                        STP4:
```

```
047E
0483
           2063'CF
                               D0
                                                                       MOVL
                                                                                 #4,W^CURRENT_TC
                        00
                               DD
                                                                       PUSHL
                                                                       CALLS #1 WAREG SAVE
           0E16'CF
                                    0485
                        01
                               FB
     2697'CF
                  0008'CF
                               DĒ
                                    048A
                                                             MOVAL
                                                                                                                ; set service name
                                             576
577
578
579
     25981CF
                  07961CF
                                    0491
                                                                       W^UM, W^MODE
                                                             MOVAL
                                                                                                                : set mode
                                    0498
                                                            $CREMBX_S PRMFLG=#0,-
                                    0498
                                                                         CHAN =W^MBCHANS.-
                                    0498
                                                                         MAXMSG=#MBBUF .-
                                                                         BUFQUO=#BUF_SIZ_S,-
PROMSK=#^X3303,-
                                             580
                                    0498
                                    0498
                                             581
                                    0498
                                                                         LOGNAM=LOGNAMS
                                                                                                                ; try s form ; check success
                                                            FAIL_CHECK SS$_NORMAL
PUSHL #$S$_NORMAL
CALLS #1,WREG_CHECK
$GETCHN_S CHAN=W^MBCHANS,-
                                    04BD
                                    04BD
                               DD
           0E20'CF
                        01
                               FB
                                    04BF
                                    0464
                                                                       PRIBUF=W^MBCHAR
#^x3303,W^MBCHR+DIB$W_VPROT
                                    0464
                                             585
                                                                                                                ; get the MBX_S channel char.
     2124'CF
                 3303 BF
                                    04DA
                                             586
                                                             CMPW
                               13
                                             587
                        13
                                    04E1
                                                             BEQL
                                                                       10$
                                                                                                                : branch if O.K.
                                    04E3
                                             588
                                                             PUSHL
                               DD
                                                                       W^MBCHR+DIB$W VPROT
             00003303 8F
                                    04E7
                                             589
                                                             PUSHL
                               DD
                                                                       #^x3303
                  034A'CF
                                    04ED
                                             590
                                                             PUSHAL WAPROT
                               DF
           1501'CF 03
                               FB
                                    04F1
                                             591
                                                             CALLS
                                                                       #3,W^PRINT FAIL
                                                                                                                : print the error
                                             592 10$:
                                    04F6
                                             593
                  1FBB'CF
                                    04F6
                                                             CLRL
                                                                       W^CRE+CREMBX$ PRMFLG
                                                                                                                ; make it temporary
                                                                      #MBBUF, W^CRE+CREMBX$ MAXMSG ; set max. message size
#BUF SIZ G, W^CRE+CREMBX$ BUFQUO; set the buffer quota
#^X3303, W^CRE+CREMBX$ PROMSK ; clear protection mask
1FC3'CF
1FC7'CF
             00000400 8F
                                             594
                               D0
                                    04FA
                                                             MOVL
                                                                                                                ; set max. message size
             00000400 8F
                                    0503
                                             595
                               DO
                                                             MOVL
1FCB'CF
             00003303 BF
                               D0
                                    050C
                                             596
                                                             MOVL
                                                                                                                  clear protection mask
     1FD3'CF
               0154'CF
                                    0515
                                             597
                                                                       W^LOGNAMG, W^CRE+CREMBX$ LOGNAM
                               DE
                                                             MOVAL
                                                                                                                ; set the lognam
                                    051C
                                             598
                                                             SCREMBX G WACRE
                                                                                                                try g form check success
                                                            FAIL_CHECK SS$_NORMAL

PUSHL #$S$_NORMAL

CALLS #1, W*REG_CHECK

SGETCHN_S CHAN=W^MBCHANG, -
                                    0525
                                             599
                                    0525
                        01
                               DD
           0E20'CF
                                    0527
                        01
                               FB
                                    052C
                                             600
                                                                                                                ; get MBX_G channel char.
; CHECK_PROMSK
                                    052C
                                             601
                                                                         PRIBUF=W^MBCHAR
     2124'CF
                 3303 8F
                                             602
                                                             CMPW
                                                                       #^X3303,W^MBCHR+DIB$W_VPROT
                                    0542
                               13
                                    0549
                                             603
                                                             BEQL
                                                                       20$
                         13
                                                                                                                : BR if O.K.
                  2124 CF
                                    054B
                                             604
                                                             PUSHL
                                                                       W^MBCHR+DIB$W_VPROT
                               DD
             00003303 8F
                                                                       #^X3303
                                    054F
                                             605
                                                             PUSHL
                               DD
                                    0555
                                                             PUSHAL WAPROT
                  034A'CF
                               DF
                                             606
           1501'CF
                                    0559
                        03
                               FB
                                             607
                                                             CALLS
                                                                      #3,W^PRINT FAIL
                                                                                                                : print the error
                                    055E
                                             608 20$:
           OCFC'CF
OC3D'CF
                               FB
                                    055E
                                             609
                                                                       #O.W^VERIFY MBX
                                                             CALLS
                                                                                                                ; read, write, verify, delete MB
                        ÕÕ
                                                             CALLS
                                                                       #O, W^ERLBUF DUMP
                                             610
                               FB
                                    0563
                                                                                                                : dump errors
                                    0568
                                             611 ;+
                                    0568
                                             612
                                    0568
                                             613 : Test ACMODE (super mode)
                                    0568
                                             614 :
                                    0568
                                             615 :-
                                    0568
                                                            NEXT_TEST
                                             616
                                    0568
                                    0568
                                                  STP5:
           2063'CF
                                    0568
                                                                                 #5,W^CURRENT_TC
                                                                       MOVL
                                                            PUSHL #0

CALLS #1, WAREG SAVE

MOVAL WACREMBX, WASERV_NAME

MOVAL WASM, WAMODE

$CMKRNL_S WASETUP_SUPER, WARGLST
                                    056D
                        00
                               DD
           0E16'CF
                                    056F
0574
                        01
                               FB
     2697'CF
2598'CF
                  0008°CF
                                             617
                                                                                                                ; set service name
                               DE
                                    057B
0582
                                                                                                                ; declare super mode
; declare CHMS handler
                  0358'CF
                                             618
                               DE
                                             619
```

SATSSSO7 V04-000 CREMBX TI	STEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 5-SEP-1984 04:29:56	VAX/VMS Macro VO4-00 Page 17 LUETPSY.SRCJSATSSSO7.MAR;1 (1)
5E 10' CO 059' 5D 5E DO 059' 0C3D'CF 00 FB 059' 0C3D'CF 00 FB 059' 0C3D'CF 00 FB 059'	622 CALLS NO,W^ERLBUF_DUMP	: adjust user stack ptr. : fix the FP : dump errors : do the super tests : dump any errors
05A 05A 05A 05A 05A 05A 05A		
2063'CF 06 D0 05A 00 DD 05A 00 DD 05A 05A 05A 05A 05A 05A 05A 05A	MOVL #6,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE 631 MOVAL W^CREMBX.W^SERV_NAME 632 MOVAL W^EM,W^MODE 633 \$CMEXEC_S B^10\$ 634 BRW 20\$: set service name : declare exec mode : go to exec mode
00 DD 05C0 0E16'CF 01 FB 05C0 05D 05D 05D 05D	636 PUSHL #0 637 CALLS #1.W^REG_SAVE 638 \$CREMBX_S PRMFLG=#0 639 CHAN =W^MBCHANS 640 MAXMSG=#MBBUF 641 BUFQUO=#BUF_SIZ_S 642 ACMODE=#PSL\$C_EXEC 643 LOGNAM=W^LOGNAMS	: save the registers : set the max. message size : set the buffer quota : set the access mode (super) : try s form : check success
1443'CF 01 FB 05F6 1FBB'CF D4 05F6 1FBB'CF D4 05F6 1FC7'CF 00000400 8F D0 0608 1FC7'CF 01 D0 0611 1FD3'CF 0154'CF DE 0616	PUSHL #SS\$ NORMAL CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP MOVL #MBBUF, W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*REG CHECKNP CALLS #1.W*CRE+CREMBX\$ MAXMSG CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO CALLS #1.W*CRE+CREMBX\$ BUFQUO	· make it temporary
0626 01 DD 0626 1443'CF 01 FB 0626 0CFC'CF 00 FB 0626 04 0636	PUSHL #SS%_NORMAL CALLS #1,W*REG_CHECKNP	: read, write, verify, delete MBX
OC3D'CF OO FB 0633 0638 0638 0638 0638 0638 0638	655 CALLS WO,W^ERLBUF_DUMP COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COLUMN COL	; dump errors
0638 0638 0638 0638 2063 CF 07 D0 0638 00 DD 0638 0E16 CF 01 FB 0638 2697 CF 0008 CF DE 0648	STP7: MOVL #7,W^CURRENT_TC PUSHL #0 CALLS #1.W^REG SAVE	; set service name

17

d = _ ~

S/V

```
MOVAL W^KM, W^MODE
$CMKRNL_S B^10$
BRW 20$
       2598'CF
                                                  064B
0652
                         0146'CF
                                           DE
                                                               663
                                                                                                                                                           : set mode
                                                               664
                               0067
                                           31
                                                   065E
                                                               665
                                                               666 10$:
                                                   0661
                                                                                    PUSHL
CALLS
                                           DD
                                                  0661
                                                               667
                0E16'CF
                                                                                    CALLS #1, WAREG SAVE
$CREMBX_S PRMFLG=#0,-
                                  ŎĬ
                                           FB
                                                  0663
                                                               668
                                                                                                                                                   ; save the registers
                                                              669
670
                                                   0668
                                                                                CHAN = W^MBCHANS, -

MAXMSG=#MBBUF, -

BUFQUO=#BUF SIZ S, -

ACMODE=#PSL$C KERNEL, -

LOGNAM=W^LOGNAMS ; try s form

FAIL_CHECKNP SS$ NORMAL ; check success

PUSHL #SS$ NORMAL

CALLS #1, W*REG CHECKNP

CLRL W^CRE+CREMBX$ PRMFLG ; make it temporary

MOVL #MBBUF, W^CRE+CREMBX$ MAXMSG ; get MAXMSG parameter

MOVL #BUF SIZ G, W^CRE+CREMBX$ BUFQUO ; set the buffer quota

MOVL #PSL$C KERNEL, W^CRE+CREMBX$ ACMODE ; move in ACMODE

MOVAL W^LOGNAMG, W^CRE+CREMBX$_LOGNAM ; set the Lognam

$CREMBX G W^CRE
                                                   0668
                                                                                                      CHAN =W^MBCHANS.-
                                                   0668
                                                               671
                                                              672
673
                                                   0668
                                                   0668
                                                   0668
                                                  0689
                                                  0689
                1443'CF 01
                                           FB
                                                  068B
                       TFBB'CF
                                                              676
                                           D4
                                                  0690
                                           D0
D0
1FC3'CF
                  00000400 8F
                                                  0694
                                                               677
iFČ7'ČF
                                                  069D
                 00000400 8F
                                                               678
       1FCF'CF 00
1FD3'CF 0154'CF
                                           DO
                                                  06A6
                                                               679
                                           DE
                                                  06AB
                                                               680
                                                                                   SCREMBX G W^CRE
FAIL_CHECKNP SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECKNP
                                                   06B2
                                                               681
                                                                                                                                                           try g form check success
                                                  06BB
                                                               682
                                           DD
                                                  06BB
                1443'CF
                                  01
                                           FB
                                                  06BD
                                                  0602
                                                               683
                OCFC'CF
                                                                                                   #O,W^VERIFY_MBX
                                           FB
                                                                                    CALLS
                                                                                                                                                           : read, write, verify, delete MBX
                                           04
                                                               684
                                                                                    RET
                                                               685 20$:
                                                  0608
                OC3D'CF
                                  00
                                           FB
                                                                                                  #0,W^ERLBUF_DUMP
                                                  0608
                                                               686
                                                                                    CALLS
                                                                                                                                                           : dump errors
                                                               687 :+
                                                  06CD
                                                  06CD
                                                               688
                                                                      : Test USER mode
                                                  06CD
                                                               689
                                                  06CD
                                                               690
                                                  06CD
                                                               691 ;-
                                                  06CD
                                                               692
                                                                                    NEXT_TEST
                                                  06CD
                                                  06CD
                                                                      STP8:
                2063'CF
                                           D0
                                                  06CD
                                                                                                                 #8,W^CURRENT_TC
                                                                                                   MOVL
                                                                                                  PUSHL #0
CALLS #1.W^REG_SAVE
W^UM,W^MODE
                                  00
                                           DD
                                                  0602
                                           FB
                0E16'CF
                                  01
                                                  06D4
       2598'CF 0796'CF
                                                  06D9
                                                                                    MOVAL
                                           DE
                                                                                                                                                            ; reset user mode
                                                                                    MOVAL W^CREMBX, W^SERV_NAME
$CREMBX_S PRMFLG=#0,-
       2697'CF
                         0008 °CF
                                           DĒ
                                                  06E0
                                                               694
                                                                                                                                                        : set service name
                                                   06E7
                                                               695
                                                   06E7
                                                                                                      CHAN =W^MBCHANS .-
                                                                                                     MAXMSG=#MBBUF, -
BUFQUO=#BUF SIZ S, -
ACMODE=#PSL$C_USER, -
LOGNAM=W^LOGNAMS
                                                   06E7
                                                               697
                                                   06E7
                                                   06E7
                                                   06E7
                                                               700
                                                                                                                                                           ; try S form ; check success
                                                                                               ECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
W^CRE+CREMBX$_PRMFLG ; make it temporary
#MBBUF, W^CRE+CREMBX$_MAXMSG ; set MAXMSG parameter
#BUF_SIZ_G, W^CRE+CREMBX$_BUFQUO ; set the buffer quota
#PSL$C_EXEC, W^CRE+CREMBX$_ACMODE ; set the acmode
W^LOGNAMG, W^CRE+CREMBX$_LOGNAM ; set the lognam

XX G_W^CRE
; try G_form
; check_success
                                                                                    FAIL_CHECK_SSS_NORMAL
                                                  0708
                                                  0708
                                                  070A
070F
0713
                0E20'CF
                                           FB
                                                              702
703
                         1FBB'CF
                                           D4
                                                                                    CLRL
1FC3'CF
1FC7'CF
                  00000400 BF
                                           DO
                                                                                    MOVL
                                                  071C
0725
072A
0731
                                                               704
705
                  00000400 8F
                                           ĎĎ
                                                                                    MOVL
       1FCF'CF 01
1FD3'CF 0154'CF
                                           ĎŎ
                                                               706
707
                                           DE
                                                                                    MOVAL
                                                                                    $CREMBX_G W^CRE
                                                                                    FAIL_CHECK SS$_NORMAL
                                                   073A
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 CREMBX TESTS 5-SEP-1984 04:29:56
                                                                                                     CUETPSY.SRCJSATSSSÖ7.MAR; 1
                                                            PUSHL #SS$_NORMAL
CALLS #1,WREG_CHECK
#0,W^VERIFY_MBX
#0,W^ERLBUF_DUMP
FAIL CREMBX_TESTS
                         073A
073C
OE20'CF
OCFC'CF
OC3D'CF
             Ŏ1
00
                   FB
FB
                         0741
                                                  CALLS
                                                                                                       ; read, write, verify, delete MBX
             ŎŎ
                         0746
                                  710
                                                  CALLS
                                                                                                       ; dump errors
                                  711
712
713
714
715
                         074B
                                                   .SBTTL
                         074B
                                       ;+++
                         074B
                         074B
                                         Test access violation for logical name
                         074B
                                  716
                         074B
                                                  NEXT_TEST
                         074B
                         074B
                                        STP9:
2063'CF
             09
                    DO
                                                             MOVL
                                                                       #9,W^CURRENT_TC
             ŎÒ
                    DD
                         0750
                                                            PUSHL
                                                  CALLS #1.WAREG_SAVE
$CREMBX_S CHAN =MBCHANS,-
             ŎĬ
                    FB
0E16'CF
                         0752
                                                               LOGNAM=ZERO_ADDR_DESCR
                                  719
                                                                                                         page zero
                                                  FAIL_CHECK SS$_ACCVIO
PUSHL #SS$_/
                         076E
                                  720
                                                                                                       ; check success
                         076E
                                                                       WSS$_ACCVIO
W1,W*REG_CHECK
             00
                    DD
0E20'CF
             01
                   FB
                         0770
                                                             CALLS
                                  721
722
723
724
725
726
                         0775
                         0775
                         0775
                                         Test access violation for channel number
                         0775
                         0775
                         0775
                                                  NEXT_TEST
                         0775
                         0775
                                        STP10:
                         0775
2063'CF
                    DO
                                                             MOVL
                                                                       #10,W^CURRENT_TC
             00
                   DD
                         077A
                                                            PUSHL
0E16'CF
             ŎĬ
                   FB
                         077C
                                                                       #1,W^REG_SAVE
                                                             CALLS
                         0781
                                  727
728
                                                  $CREMBX_S CHAN =0
FAIL_CHECK_SS$_ACCVIO
                                                                                                       ; channel zero
                         0792
                                                                                                       ; check success
             0C
01
                         0792
                   DD
FB
                                                                       #SS$_ACCVIO
#1,WREG_CHECK
                                                             PUSHL
                         0794
0E20'CF
                                                             CALLS
                                  729
730
731
732
733
734
                         0799
                                       ;+++
                                       :
: Test invalid logical name descriptor
                                                  NEXT_TEST
                         0799
                         0799
0799
                                        STP11:
             0B
00
2063'CF
                   DO
DD
FB
                                                            MOVL
                                                                       #11,W^CURRENT_TC
                         079E
                                                            PUSHL
                                                                       #1, WAREG_SAVE
0E16'CF
             01
                         07A0
                                                             CALLS
                                  735
736
737
                         07A5
                                                  $CREMBX_S CHAN =MBCHANS;-
                                                               LOGNAM=LEN_OO_DESCR
                                                                                                       ; zero length name!
                                                  FAIL_CHECK_SS$_IVLOGNAM
                         07BC
                                                                                                       ; check success
 00000154 8F
0E20'CF 01
                   DD
FB
                         07BC
                                                                       #SS$_IVLOGNAM
#1,WREG_CHECK
                                                             PUSHL
                         07C2
07C7
0E20'CF
                                                             CALLS
                                  738 :+++
739 :
                         0767
                         0767
                                         Test valid 255 character logical name descriptor
                                  740
                         07C7
                                  741
742
                                                             (CREMBX service prefixes 'MBX$' to the string!)
```

VAX/VMS Macro V04-00

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(1)

```
- SATS SYSTEM SERVICE TESTS (SUCC $.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 FAIL CREMBX TESTS 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                               743 ;---
                                                               NEXT_TEST
                                                    STP12:
            2063'CF
                                D0
                                                                         MOVL
                                                                                    #12,W^CURRENT_TC
                         ÕÕ
                                DD
                                                                         PUSHL
                                                                                    #0
                                                                                    MI, WAREG_SAVE
            0E16'CF
000E'CF
                                FB 90
                         01
                                                                         CALLS
                                                              MOVB #1. CREATED FLAG

$CREMBX_S CHAN = MBCHAND. -

LOGNAM=LEN_63_DESCR
                                                                                                                    : assume it works
                                               746
747
                                                                                                                    ; 255 chars long
                                                              BLBS RO, 10$
CLRB CREATED FLAG
FAIL_CHECK SS$_NORMAL
                                               748
                                                                                                                    ; did it work?
                   000E 'CF
                                                                                                                    ; apparently not
                                               750 105:
                                                                                                                    : check success
                                                                         PUSHL #SS$ NORMAL CALLS #1, WREG_CHECK
            0E20'CF
                         Õ1
                                FB
                                              751 :+++
752 :
753 : Test DELMBX sys service invalid channel ( 0 )
                                      07FD
                                     07FD
                                     O7FD
                                     07FD
                                              755 :---
                                     O7FD
                                               756
                                     07FD
                                                               NEXT_TEST
                                     O7FD
                                     07FD
                                                    STP13:
            2063'CF
                                     07FD
                                                                                    #13,W^CURRENT_TC
                                                                         MOVL
                                DD
                                     0802
                                                                         PUSHL
                                                              CALLS #1, WAREG_SAVE
MOVAL DELMBX, SERV_NAME

$DELMBX_S CHAN = CHANNEL_ZERO
FAIL_CHECK_SS$_IVCHAN
            0E16'CF
                         01
                                FB
                                     0804
     2697'CF 0120'CF
                                DĒ
                                     0809
                                                                                                                    ; set service name
                                     0810
                                              758
                                     081C
                                                                                                                    : check int. failure
             0000013C 8F
                                                                         PUSHL #SS$ IVCHAN
CALLS #1,WREG_CHECK
                                DD
                                     0810
            0E20'CF
                         Ŏ1
                                FB
                                              760 ;+++
                                              761 : 762 : Test DELMBX sys service invalid channel ( >#channels )
                                              762 : Te
763 :
764 :---
765
                                                              NEXT_TEST
                                                    STP14:
            2063'CF
                                                                         MOVL
                                D0
                                                                                    #14,W^CURRENT_TC
                               DD
FB
                                     0820
                                                                                    #0
                                                                         PUSHL
            0E16'CF 01
7E 2102'CF
00000000'9F
                                                                         CALLS #1, W^REG_SAVE
MBCHAND, -($P)
a#CTL$GW_CHINDX, MBCHAND
#^X10, MBCHAND
                                     082E
0833
                                B0
                                                              MOVW
                                                                                                                    ; save the channel #
2102'CF
                                B0
                                     0838
                                               767
                                                              MOVW
                                                                                                                    ; get max # channel
            2102'CF
                                     0841
                                                               ADDW2
                                A0
                                              768
                                                                                                                    ; one nibble more
                                                              $DELMBX_S CHAN = MBCHAND
                                     0846
                                               769
                                                              FAIL_CHECK SS$_IVCHAN
                                     0852
                                                                                                                    : check int. failure
             0000013C 8F
                                                                         PUSHL #SS$ IVCHAN CALLS #1, WEREG CHECK
                                DD
                                     0852
            0E20'CF
2102'CF
                         01
                                FB
                                     0858
                                               771
                                                                         (SP)+, MBCHAND
                                B0
                                     085D
                                                               MOVW
                                                                                                                    ; get back the channel
                                              772 :+++
773 :
                                     0862
                                     0862
                                     0862
                                               774; Test DELMBX sys service - delete one just created
                                              775 :
                                     0862
                                               776 :---
                                     0862
                  000E 'CF
                                95
13
                                     0862
                                               777
                                                               TSTB
                                                                         CREATED_FLAG
                                                                                                                   : not if it wasn't created
                         1 F
                                     0866
                                                              BEQL
                                                                         SKIP_DECETE
```

FAIL CREMBX TESTS

```
G 12
(SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00
                 FAIL CREMBX TESTS
                                                                     5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR:1
                       0868
0868
0868
0868
                                779
                                               NEXT TEST
                                     STP15:
2063'CF
                  D0
                                                         MOVL
                                                                  #15,W^CURRENT_TC
            00
01
                       0860
                  DD
                                                         PUSHL
0E16'CF
                                                                  #1,WAREG_SAVE
                  FB
                       086F
                                                         CALLS
                        0874
                                               $DELMBX_S CHAN = MBCHAND FAIL_CHECK_SS$_NORMAL
                        0880
                                781
                                                                                                : should be O.K.
                                                                  #SS$_NORMAL
#1,WRREG_CHECK
                  DD
                        0880
                                                         PUSHL
            Ŏī
                       0882
0887
0E20'CF
                  FB
                                                         CALLS
                                782 SKIP_DELETE: 783 :+++ 784 :
                        0887
                        0887
                        0887
                                785
                                     : Test DELMBX sys service - channel not assigned
                                786
787
788
                        0887
                       0887
                       0887
                                               NEXT_TEST
                       0887
                       0887
                                     STP16:
2063'CF
                       0887
                  DO
                                                         MOVL
                                                                  #16.W^CURRENT_TC
                  DD
                       0880
                                                         PUSHL
                                                                  #0
0E16'CF
                                                                  #1,WAREG_SAVE
            01
                  FB
                       088E
                                                         CALLS
                                               $DASSGN_S CHAN = MBCHAND BLBS RO,120$
                       0893
                                                                                                  deassign the channel
            50
         07
                  E8
                       089F
                                790
                                                                                                  Skip error report if OK
            50
01
                  DD
                       SA80
                                791
                                               PUSHL
                                                         RO
                                                                                                  Save error code
                                              CALLS #1, NONSUB SSE

$DELMBX_S CHAN = MBCHAND

FAIL_CHECK_SS$_NOPRIV
14BF 'CF
                  FB
                       08A4
                                792
                                                                                                ; Print the failure
                                793 120$:
                        08A9
                                                                                                 check int. failure
                                                                                                  'channel not assigned'
                        08B5
                                                                 #SS$ NOPRIV
#1,WREG_CHECK
            24
                        08B5
                                                         PUSHL
                  DD
                       08B7
08BC
0E20'CF
                  FB
                                                         CALLS
                                795 ;+++
                       08BC
                                796
                       08BC
                                797
                                    ; Test DELMBX sys service - device not mailbox
                       0880
                                798
                       08BC
                                799
                       08BC
                                800
                                              NEXT_TEST
                       08BC
                       08BC
                                     STP17:
2063'CF
                       08BC
                  DO
                                                         MOVL
                                                                  #17,W^CURRENT_TC
                       0801
            00
                  DD
                                                                  #0
                                                         PUSHL
0E16'CF
            01
                  FB
                       0803
                                                         CALLS #1, WAREG_SAVE
                                              $ASSIGN_S DEVNAM = SYS DEV,-
CHAN = MBCHAND
BLBS RO,120$
                       0868
                                                                                                ; system disk assigned
                       0808
                                802
                  28
DD
        07 50
                       0809
                                803
                                                                                                ; Skip error report if OK
            50
                       08DC
                                804
                                                         RO
                                               PUSHL
                                                                                                ; Save error code
                                              CALLS #1 NONSUB SSE

$DELMBX_S CHAN = MBCHAND

FAIL_CHECK_SS$_DEVNOTMBX
14BF 'CF
            01
                  FB
                       08DE
                                805
                                                                                                ; Print the failure
                                806 120$:
                       08E3
                       08EF
                                807
                                                                                                ; check int. failure
 00000074 8F
0E20'CF 01
                                                        PUSHL #SS$_DEVNOTMBX
CALLS #1,WREG_CHECK
                       08EF
0E20'CF
                  FB
                       08F5
                       08FA
                                308
                                               $DASSGN_S CHAN = MBCHAND
                                                                                                ; deassign SYS$SYSDEVICE
                                ***; 608
                       0906
                       0906
                                810
                       0906
                                811
                                    ; Test no privilege for delete permanent mailbox
                       0906
                                812
813
                       0906
                       0906
                                814
                                               NEXT_TEST
```

(1)

- SATS SYSTEM SERVICE TESTS

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 FAIL CREMBX TESTS 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1

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```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 FAIL CREMBX TESTS 5-SEP-1984 04:29:56 CUETPSY.SRC]SATSSSO7.
                                                                                                LUETPSY.SRC3SATSSS07.MAR:1
                                                                                                                                          (1)
                          0902
                                   858
859
860
                          0902
                                                 NEXT_TEST
                          0902
                          0902
                                        STF20:
   2063'CF
                      DO
                          0905
                                                                    #20, W^CURRENT_TC
                                                           MOVL
                     DD
                          09D7
                                                           PUSHL
                     FB
BB
D4
               ŎĬ
   0E16'CF
                          0909
                                                           CALLS #1,WAREG_SAVE
                ŎĠ
                          09DE
                                                           #^M<R2>
                                                 PUSHR
                                                                                                    Save R2's contents
                          09E0
                                   862
863
                                                           Ř2
                                                 CLRL
                                                                                                    Set index variable
000D'CF
                      90
                          09£2
               8F
            41
                                                           #AAA/,EQUIV_NAME+4
                                                 MOVB
                                                                                                    init equivalence name
                                  864
865
866
867
868
869
10$:
0008 ° CF
            42 8F
                          09E8
                                                 MOVB
                                                           #^A/B/,LOGIC_NAME+4
                                                                                                  ; init logical name
                          09EE
                          09ĒĒ
                                                 Create 9 levels of logical names ( MBX$NAMEB := NAMEA )
                          09EE
                                                           (10 translations)
                          09EE
                          09ĒĒ
                          09EE
                                                 $CRELOG_S LOGNAM = D_MBX_LOGIC_NAME,-
                          09FE
                                                             TBLFLG = MZ,-
                                   872
873
                          09ĒĒ
                                                             EQLNAM = D_EQUIV_NAME
                                                                                                    Create a level of logical name
            07 50
                          0A01
0A04
0A06
0A0B
0A0F
0A13
0A17
0A19
                                                 BLBS
                                                           RO,120$
                                                                                                    Skip error report if OK
                                   874
                                                                                                    Save error code
                     DD
                                                 PUSHL
                                                           R0
   14BF 'CF
               01
                     FB 96
                                   875
                                                           #1, NONSUB_SSE
                                                  CALLS
                                                                                                    Print the failure
                                   876 120$:
877
878
879
                                                          LOGIC_NAME+4
EQUIV_NAME+4
#9,R2,10$
         0008'CF
                                                                                                    Bump the logical name by one
                                                  INCB
                     96
F2
          000D'CF
                                                  INCB
                                                                                                    Bump the equiv name by one
     D7 52
               09
                                                 AOBLSS
                                                                                                  ; Make 9 levels
                     BA
97
                                                           #^M<R2>
                                                 POPR
                                                                                                    Restore R2
                                                 DECB LOGIC NAME+4
$CREMBX_S CHAN = MBCHANS, -
         0008'CF
                                   880
                                                                                                  ; decrement due to loop incr
                                   881
                                   882
883
                          OA1D
                                                             LOGNAM=D_LOGIC_NAME
                                                                                                  ; should be O.K.
                          0A34
0A34
0A36
                                                 FAIL_CHECK SS$_NORMAL
                                                                                                  : check success
               01
                                                           PUSHL #SS$ NORMAL
                     DD
   0F20'CF
               01
                     FB
                                                           CALLS
                                                                    #1,WREG_CHECK
                                  884 ;+++
                          0A3B
                          0A3B
0A3B
                                   885
                                   886
887
                                       ; Test logical name translation too deep (>10)
                          0A3B
                          QA3B
                                   888 :---
                          OA3B
                                   889
                                                 NEXT_TEST
                          0A3B
                          OA3B
                                        STP21:
   2063'CF
                          OA3B
               15
                     D0
                                                           MOVL
                                                                    #21,W^CURRENT_TC
               00
                     DD
                          0A40
                                                           PUSHL
                                                                    #0
   0E16'CF
                     FB 96
                          0A42
0A47
                                                           CALLS #1,WAREG_SAVE
               01
         0008 CF
                                                           LOGIC_NAME+4
                                   890
                                                                                                  : Bump the logical name by one
                          0A4B
                                                 $CRELOG_S LOGNAM = D_MBX_LOGIC_NAME,-
                                   891
                                   892
893
                          0A4B
                                                             TBLFLG = #2,-
                                                           EQLNAM = D_EQUIV_NAME
RO,120$
                          QA4B
                                                                                                  ; Create one more level
           07 50
50
01
                          0A5E
                     E8
                                   894
                                                 BLBS
                                                                                                    Skip error report if OK
                                                 PUSHL
                      DD
                          0A61
                                   895
                                                           R0
                                                                                                    Save error code
                                                 CALLS #1.NONSUB_SSE

$CREMBX_S CHAN = MBCHANS.-

LOGNAM=D_LOGIC_NAME
   14BF 'CF
                      FB
                          QA63
                                                                                                  ; Print the failure
                                   896
                                   897 1205:
                          0A68
                          0A68
                                   898
                                                                                                  ; should fail
                                                 FAIL_CHECK SS$_TOOMANYLNAM PUSHL #SS$_TOOMANYLNAM
                          QA7F
                                   899
                                                                                                  : check success
    00000374 8F
                          OA7F
                      DD
   0E20'CF
               01
                      FB
                          0A85
                                                                  #1,WREG_CHECK
                                                           CALLS
                                   900 ;+++
                          A8A0
```

```
A8A0
                                                   : Test no privilege for permanent mailbox
                                     0A8A
0A8A
                                              904 :---
                                      A8A0
                                               905
                                      A8A0
                                                              NEXT_TEST
                                      A8A0
                                     DA8A
                                                    STP22:
             2063'CF
                                DO
                                     A8A0
                          16
                                                                         MOVL
                                                                                   #22,W^CURRENT_TC
                                                              PUSHL #0
CALLS #1, WAREG SAVE
$SETPRV_S ENBFLG=#DISABLE,-
                          ÓŎ
                                DD
                                     OA8F
                          ŎĬ
                                FB
            0E16'CF
                                     0A91
                                      0A96
                                               907
                                      0A96
                                                                           PRVADR=PRM_PRV_MASK
                                                                                                                   : disable perm privilege
                      07
                         50
                                                                                                                   ; Skip error report if OK
                                E8
                                     OAA?
                                               908
                                                              BLBS
                                                                         RO,120$
                                                              PUSHL
CALLS
                          50
                                               909
                                DD
                                     DAAA
                                                                         R0
                                                                                                                     Save error code
                                                              CALLS WI NONSUB SSE

$CREMBX S PRMFLG=#1 .-

CHAN =MBCHANS
             14BF 'CF
                          ÓĬ
                                FB
                                               910
                                     DAAC
                                                                                                                   : Print the failure
                                               911 120$:
                                      0AB1
                                              912
913
                                      0AB1
                                                              FAIL_CHECK SS$_NOPRIV
PUSHL #SS$_N
                                     OAC4
                                                                                                                   : check success
                                                                                  #SS$_NOPRIV
#1,WREG_CHECK
                         24
01
                                     OAC4
            0E20'CF
                                FB
                                     0AC6
                                                                         CALLS
                                              914 ;+++
                                      OACB
                                              915 ;
                                      OACB
                                      OACB
                                              916
                                                   ; Test no privilege for temporary mailbox
                                              917 ;
                                      OACB
                                              918 ;---
                                      OACB
                                               919
                                      OACB
                                                              NEXT_TEST
                                      OACB
                                                    STP23:
                                      OACB
             2063 CF
                          17
                                                                                   #23,W^CURRENT_TC
                                DO
                                     OACB
                                                                         MOVL
                          00
                                                                                  #0
                                DD
                                     OADO
                                                                         PUSHL
                                                              CALLS #1, WAREG SAVE

$SETPRV_S ENBFLG=#DISABLE,-
            0E16'CF
                          01
                                FB
                                     OAD2
                                     OAD7
                                              921
922
923
924
925 120$:
926
                                                                           PRVADR=TMP_PRV_MASK
                                      OAD7
                                                                                                                   ; disable temp privilege
                                                                         RO,120$
                                                                                                                   ; Skip error report if OK
                      07
                         50
                                E8
                                     OAE8
                                                              BLBS
                          ŠŎ
                                                              PUSHL
                                DD
                                     OAEB
                                                                         RO
                                                                                                                     Save error code
                                                              CALLS #1.NONSUB_SSE

$CREMBX_S CHAN = MBCHANS

FAIL_CHECK_SS$_NOPRIV
             14BF 'CF
                          01
                                FB
                                     OAED
                                                                                                                   : Print the failure
                                      OAF 2
                                      0805
                                                                                                                   ; check success
                                                              PUSHL #SS$_NOPRIV
CALLS #1, WREG_CHECK
SSETPRV_S ENBFLG=#ENABLE;-
PRVADR=TMP_PRM_PRV_MASK
                                      OBO5
                                DD
             0E20'CF
                          01
                                      OBO7
                                FB
                                               927
928
929
930
                                      0B0C
                                                                                                                   ; re-enable privileges
                                     0B0C
0B1D
                         50
50
01
                                                                         RO,220$
                      07
                                E8
                                                                                                                   ; Skip error report if OK
                                                              BLBS
                                      0B20
0B22
0B27
0B27
                                                              PUSHL
                                DD
                                                                                                                   : Save error code
                                                                         #1, NONSUB_SSE
             14BF 'CF
                                               931
                                                                                                                   : Print the failure
                                FB
                                                               CALLS
                                               932
                                                   2205:
                                               933
                                     0B27
0B29
0B29
0B2D
0B31
                                               934
                                                              CHMS
TEST_END
                          02
                                                                         #2
                                                                                                                   ; reset super mode handler to DCL
                                BE
                                               935
                   269F 'CF
                                                                         PUSHL
                                                                                   WATMD ADDR
                                DD
                                                                                   WATHN ADDR
                   26A3'CF
                                                                         PUSHL
                                DD
                                                                         PUSHL
                                                                                   #2
                                DD
                                                                                   W^MOD_MSG_CODE
#$$T1,G^LIB$SIGNAL
#1,#$T$$V_INHIB_MSG,#1,W^MOD_MSG_CODE
W^MOD_MSG_CODE
#1,G^$Y$$EXIT
                   2594'CF
                                      0B33
                                                                         PUSHL
                                DD
       00000000 GF
                                FB
FO
                                      0B37
                                                                         CALLS
                         04
                                      OB3E
                                                                         INSV
2594 'CF
                   10
                          01
            01
                   2594°CF
                                      0B45
                                                                         PUSHL
                                 DD
       00000000 GF
                                      0849
                                                                         CALLS
                          01
                                FB.
```

- SATS SYSTEM SERVICE TESTS

```
(SUCC S.C.) 16-SEP-1984 00:47:06
5-SEP-1984 04:29:56
                                                                        VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                25
(2)
ROUTINES
             937
938
939
     0B50
0B50
                  .SBTTL ROUTINES
.SBTTL SETUP_SUPER ROUTINE
             940
             941
                           Routine to declare an initial CHMS handler from user mode.
     0B50
                    FUNCTIONAL DESCRIPTION:
             945
                    CALLING SEQUENCE:
             946
947
                           $CMKRNL_S W^SETUP_SUPER, ARGLST
                                    ARGLST = address of a pointer to a one parameter argument list conta
             950
                                               the address of the entry mask of the CHMS handler
                    INPUT PARAMETERS:
             954
955
                           ARGLST
     0850
                    IMPLICIT INPUTS
     0B50
             957
     0850
             958
                           NONE
     0B50
             959
     0850
                    OUTPUT PARAMETERS:
     0850
             961
     0B50
                           Declares a change mode handler for super mode which must be
     0B50
                           reset to DCL in the users handler routine when the handler is
     0B50
             964
                           no longer needed.
     0B50
             965
             966
967
     0B50
                    IMPLICIT OUTPUTS:
     0B50
     0B50
             968
                           NONE
     0850
             969
     0B50
                    COMPLETION CODES:
     0B50
             971
             972
973
     0850
                           NONE
     0B50
             974
     0B50
                    SIDE EFFECTS:
     0B50
             975
     OBSO
             976
                           NONE
     ÖB5Ö
             977
     0B50
             978
                    ON ENTRY:
     0B50
             979
     0B50
             980
                                                                USP =>
                                    KSP =>
     0B50
             981
                                                  Ŏ
                                                                            USER
     0B50
                                                  ĂΡ
     0B50
                                                 FP
                                                                            CALL
     0B50
             984
                                                 PC
     ŎB5O
             985
                                                  0
                                                                           FRAME
     0850
             986
                                                  Õ
     ÖB5Ö
             987
                                                  ĂΡ
     0850
             988
                                                 FP
     0850
             989
                                              SRVEXIT
     0850
             990
                                                 PC
     0850
             991
                                                PSL
             993
993
     0850
     0850
```

Page

```
M 12
                                            - SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06
SUPER MODE 5-SEP-1984 04:29:56
SATSSS07
V04-000
                                                                                                                                                                                  27
(3)
                                                                                                                                    VAX/VMS Macro V04-00
                                                                                                                                    [UETPSY.SRC]SATSSSO7.MAR:1
                                                           1027 .SBTTL SUPER_MODE
1028 :++
1029 : FUNCTIONAL DESCRIPTION:
                                                    OBAC
                                                   OBAC
                                                   OBAC
                                                           1030
                                                   OBAC
                                                                             Routine to handle the CHMS instructions.
                                                           1031
                                                   OBAC
                                                           1032
                                                                     CALLING SEQUENCE: CHMS #N
                                                   OBAC
                                                           1033
                                                   ÓBAC
                                                            1034
                                                   OBAC
                                                           1035
                                                   OBAC
                                                                     INPUT PARAMETERS:
                                                           1036
                                                   OBAC
                                                                                SP=> CHMS parameter
                                                           1037
                                                   OBAC
                                                                                         PC
                                                   OBAC
                                                           1038
                                                                                         PSL
                                                           1039
                                                   OBAC
                                                   OBAC
                                                           1040
                                                                                The CHMS parameter can be one of the following:
                                                   OBAC
                                                           1041
                                                   OBAC
                                                           1042
                                                                                        1 = execute $CREMBX (_S and _G form)
2 = execute a $DCLCMH_S to reset the CHMS handler to DCL
                                                   OBAC
                                                           1043
                                                   OBAC
                                                           1044
                                                           1045
                                                                     OUTPUT PARAMETERS:
                                                   OBAC
                                                   OBAC
                                                           1046
                                                                              NONE
                                                           1047 :--
                                                   OBAC
                                                   OBAC
                                                            1048
                                                   OBAC
                                                            1049
                                                                  SUPER_MODE:
                                      8E
50
                               50
01
                                                           1050
                                                   OBAC
                                                                                         (SP)+R0
                                                                             MOVL
                                                                                                                                     ; get CHM parameter off the stack
                         02
                                             8F
                                                            1051
                                                   OBAF
                                                                              CASEB
                                                                                         RO,#1,#2
                                                                                                                                     : do the right thing
                                                            1052
                                                                  105:
                                                   0BB3
                                                           1053
                                                                              .WORD
                                           00041
                                                   08B3
                                                                                         20$-10$
                                           00661
                                                   08B5
                                                                                         A30-10$
                                                            1054
                                                                              . WORD
                                                            1055 20$:
                                                   0BB7
                                                   0887
0889
                                                                              PUSHL
                                             DD
                                                           1056
                                                                                        #1,WAREG_SAVE
                                       ŎĬ
                        0E16'CF
                                             FB
                                                           1057
                                                                             CALLS
                                                                                                                                    ; save the registers
                                                                              $CREMBX_S PRMFLG=#0,-
                                                   OBBE
                                                           1058
                                                   OBBE
                                                           1059
                                                                                           CHAN =W^MBCHANS,-
                                                                                           MAXMSG=#MBBUF,-
BUFQUO=#BUF_SIZ_S,-
ACMODE=#PSL$C_SUPER,-
LOGNAM=W^LOGNAMS
                                                   OBBE
                                                           1060
                                                   OBBE
                                                           1061
                                                   OBBE
                                                           1062
                                                                                                                                     ; try s form
; check success
                                                   OBBE
                                                           1063
                                                                             FAIL_CHECKNP SS$ NORMAL
PUSHL #SS$ NORMAL
CALS #1, W*REG CHECKNP
CLRL W*CRE+CREMBX$_PR#FLG
                                                   0BDF
                                                           1064
                                                   OBDF
                         1443'CF
                                             FB
                                                   0BE1
                                1FBB'CF
                                              D4
                                                   08E6
                                                           1065
                                                                                                                                     ; make it temporary
                                                                                        #MBBUF, W^CRE+TREMBX$ MAXMSG ; set max. message size #BUF_SIZ_G, W^CRE+CREMBX$_BUFQUO ; set the buffer quota #PSL$C_SUPER, W^CRE+CREMBX$_ACMODE ; set the access mode W^LOGNAMG, W^CRE+CREMBX$_LOGNAM ; set the lognam
            1FC3'CF
1FC7'CF
                          00000400 8F
                                              DO.
                                                   OBEA
                                                           1066
                                                                             MOVL
                          00000400 8F
                                             DO
                                                   OBF 3
                                                           1067
                                                                             MOVL
                         1FCF'CF 02
CF 0154'CF
                                              DO
                                                   OBF C
                                                           1068
                                                                              MOVL
                  1FD3'CF
                                              DE
                                                   0C01
                                                           1069
                                                                              MOVAL
                                                                             SCREMBX_G W^CRE
                                                                                                                                     ; try g form
; check success
                                                   8000
                                                           1070
                                                                             FAIL_CHECKNP SS$ NORMAL
PUSHL #SS$ NORMAL
CALLS #1, WREG_CHECKNP
                                                   0011
                                                           1071
                                              DD
                                                   0011
                         1443'CF
                                       01
                                              FB
                                                   0013
                                                           1072
1073
                                                                                        #O, W^VERIFY_MBX
                         OCFC'CF
                                       00
                                              FB
                                                   0018
                                                                              CALLS
                                                                                                                                     ; read, write, verify, delete MBX
                                       1 D
                                              11
                                                   0C1D
                                                                              BRB
                                                                                                                                     ; get back to user mode
                                                   0C1F
                                                            1074 A30:
                                                                             MOVAL W^DCLCMH, W^SERV_NAME
$DCLCMH_S aprvHnD1, #0
FAIL_CHECK_SS$_NORMAL
                  2697'CF
                                0119'CF
                                                   OC1F
                                                           1075
                                                                                                                                     ; set service name pointer
                                              DE
                                                   0C26
0C35
                                                            1076
                                                                                                                                     ; reset the CHMS handler for DCL
                                                            1077
                                                                                                                                     : check for success
```

PUSHL #SS\$_NORMAL CALLS #1,WREG_CHECK

0035

0037

DD

FB

01

0E20'CF

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 28 SUPER_MODE 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1 (3)

0C3C 1078 A50: 02 0C3C 1079

REI

; return to user mode

SA

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= SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                        Page
                                                                                                                               (4)
                          0C3D
                                               .SBTTL ERLBUF_DUMP
                                1082
                                      : ++
: FUNCTIONAL DESCRIPTION:
                          ŎČŽĎ
                          OC3D
                                1084
                                               Routine to check for errors in the error log buffer and
                          OC3D
                                 1085
                                               report any that are there.
                          OC3D
                                 1086
                          0C3D
                                 1087
                                        CALLING SEQUENCE:
                          OC3D
                                 1088
                                               CALLS #0.W^ERLBUF DUMP
                          0030
                                 1089
                          OC3D
                                        INPUT PARAMETERS:
                                 1090
                          OC3D
                                 1091
                                               FLAG bit 0 = 0 for no errors logged
                          OC3D
                                 1092
                                               FLAG bit 0 = 1 for errors logged
                          OC3D
                                 1093
                                               if errors logged then buffer ERLB must contain legal format errors
                          0C3D
                                 1094
                                        OUTPUT PARAMETERS:
                          0C3D
                                 1095
                          0C3D
                                1096
                                               NONE
                          0C3D
                                1097
                          0C3D
                                1098
                          OC3D
                                1099
                          0C3D
                                      ERLBUF_DUMP:
                                1100
                          OC3D
                                                       ^M<R2,R3,R4>
FLAG,30$
                   001C
                                1101
                                               .WORD
       2A 0E62'CF
                          OC3F
                     E9
                                1102
                                               BLBC
                                                                         ; br if no errors to report
          0E67'CF
                                 1103
                          0044
                     DE
                                               MOVAL
                                                        ERLB.R2
                                                                         : set up buffer pointer
                          0049
                                 1104 105:
                          0049
                                 1105
                      D5
                                                        (R2)
                                               TSTL
                                                                         ; any more errors?
                      13
                          OC4B
                                                        30$
                                1106
                                               BEQL
                                                                           br if not
                                                        (R2)+,W^SERV_NAME; reset service name
     2697'CF
                     DÖ
                          OC4D
                                 1107
                                               MOVL
                                                        (R2)+,W^CURRENT_TC; reset step #
                82
82
     2063 CF
                      DO
                          0052
                                 1108
                                               MOVL
     2598'CF
                      DÖ
                          0057
                                1109
                                                        (R2)+,W^MODE
                                               MOVL
                                                                         ; reset the mode
                82
          53
54
                     9Ă
                          0050
                                1110
                                               MOVZBL
                                                        (R2) + .R3
                                                                         ; get the longword count
                     D0
                          0C5F
                                1111
                                                        R3,R4
                                               MOVL
                                                                         : and save it
                                1112 20$:
                          0062
                          0062
                                               PUSHL
                                                        (R2)+
                                                                         ; push a parameter
                          0C64
                                                       R3,20$
                      F5
             FB
                                1114
                                               SOBGTR
                                                                         ; and push them all
                                                        R4, WPRINT_FAIL ; print the failure
     1501'CF
                      FB.
                          0067
                                1115
                                               CALLS
                      11
                          0060
                                1116
                                               BRB
                                                                         : do the next one
                                1117 308:
                          006E
0E63'CF
                          OC6E
                                               MOVAL
                                                        W^ERLB, W^ELBP
           0E67'CF
                                1118
                                                                         ; reset the buffer pointer
```

; set fresh terminater

; bail out

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0079

1119

1120

CLRL

RET

W^ERLB

0E67'CF

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                       .SBTTL BUF_CHECK
                                            ; ++
; FUNCTIONAL DESCRIPTION:
                               OC7A
                               OC7A
                                                       Routine to check the contents of a buffer against known good
                               OC7A
                                                       data.
                               OC7A
                                               CALLING SEQUENCE:
                               OC7A
                                                       CALLS #0, WABUF_CHECK
                                                                                                : check buffer
                               OC7A
                                               INPUT PARAMETERS:
                               0C7A
                               OC7A
                                                       R6 = buffer address
                                                       R7 = good data address
                               OC7A
                                                       R8 = byte count
                                      1135
                               OC7A
                                               OUTPUT PARAMETERS:
                               0C7A
                                      1137
                               0C7A
                                                       NONE
                               OC7A
                                      1138
                                      1139 ;--
                               0C7A
                               OC7A
                                      1140
                               0C7A
                                            BUF_CHECK:
                                      1141
                                                                 ^M<R2,R3,R4,R5,R6,R7,R8,R9>
R6,R9
                       03FC
                              OC7A
                                      1142
                                                       . WORD
                         DO 29 13 C3
                               0070
                                                       MOVL
                                                                                                           ; save a copy of the buffer address
                                                                 R8 (R7),(R6)
10$
                   58
                               OC7F
            67
                                      1144
                                                       CMPC3
                                                                                                           ; check the buffer
      66
                   76
                                                                                                          ; br if good
; get buffer offset
                               0083
                                      1145
                                                       BEQL
                                                       SUBL3 R9,R3,W^ARGLST1+8
MOVZBL (R1),W^ARGLST1+12
$GETCHN_S CHAN =W^MBCHAN,-
                   59
0017'CF
                               0085
                                      1146
      001B'CF
                          ŠĀ.
                               0C8B
                   61
                                      1147
                                                                                                           ; get the good data
                               0090
                                      1148
                               0090
                                                                    PRIBUF = W^PB
                                      1149
                                                                                                           ; get the unit number
                                                       MOVZWL W^PB+DIB$W_UNIT+8,W^ARGLST1+4
MOVZBL (R3),W^ARGLST1+16
$GETMSG_S MSGID=#UETP$_DATAER,-
0013'CF 25C8'CF
                              OCA6
                                      1150
                                                                                                           ; get the unit number
      001F 'CF
                               OCAD
                                      1151
                                                                                                           ; get the bad data
                              0CB2
0CB2
0CB2
0CB2
0CCB
                                      1153
                                                                    MSGLEN=W^ML, =
BUFADR=W^CTRSTR, -
                                      1154
1155
                                                      FLAGS = #1 ; get the ctrstr

$FAUL_S W^CTRSTR,W^ML,W^GETBUF,W^ARGLST1 ; make it readable

CALLS #0,W^STORE_STEP
                                      1156
1157
                                                                 #0, WASTORE_STEP
      ODF5'CF
                         FB
                                                                 W^ÉLBP,R2
#1,(R2)+
            0E63'CF
                                      1158
                         DO
                                                       MOVL
                                                                                                           ; get error log buffer pointer
            82
2580
                         90
                   Õ1
                              OCEC
                                      1159
                                                       MOVB
                                                                                                           ; save longword count
                              OCEF
OCF4
                         DE
                                      1160
                                                       MOVAL
                                                                 W^ML_{(R2)}+
                                                                                                           ; push desc. address
                         D4
                                      1161
                                                       CLRL
                                                                 (R2)
                                                                                                           ; make a new terminator
      0E63'CF
                                                                 R2,W^ELBP
                         D0
                               0CF6
                                      1162
1163 10$:
                                                       MOVL
                                                                                                           : reset buffer pointer
                               OCFB
```

; return

OCFB

1164

RET

P-

P

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S

S

C

10

6

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T

2180'CF

2180'CF 0365'CF

00000400 8F

ZÓFC'CF ZOFE'CF FE92 CF 00

56 57

ODA5 ODA8

8AD0

0DA8

ODA8

ODCB

ODDO

ODD5

ODDC

ODE 3

ODE 8

ODF 4

DE

D0

B0

FB

1203

1204

1205

1206

1207 1208

```
- SATS SYSTEM SERVICE TESTS (SUCC $.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 VERIFY_MBX 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                                                                                    Page
                                                   OCFC 1166 .SBTTL VERIFY_MBX
OCFC 1167 :++
OCFC 1168 : FUNCTIONAL DESCRIPTION:
                                                   ŎČFČ
                                                           1169
                                                                                Routine to write to a mailbox, read the data back, verify the
                                                           1170
                                                   OCFC
                                                                               results and delete the mailbox.
                                                   OCFC
                                                            1171
                                                                      CALLING SEQUENCE:
CALLS #1, W^VERIFY_MBX
                                                   OCFC
                                                            1172
                                                           1173
                                                   OCFC
                                                   OCFC
                                                            1174
                                                            1175
                                                                      INPUT PARAMTERS
                                                   OCFC
                                                   OCFC
                                                            1176
                                                   OCFC
                                                            1177
                                                                      OUTPUT PARAMETERS:
                                                            1178
                                                   OCFC
                                                                               NONE
                                                            1179
                                                   OCFC
                                                   OCFC
                                                            1180
                                                                   VERIFY_MBX:
                                                   OCFC
                                                            1181
                                                           1182
                                          03FC
                                                                                           ^M<R2,R3,R4,R5,R6,R7,R8,R9>
CHAN=W^MBCHANS,-
                                                   OCFC
                                                                               .WORD
                                                                                                                                           ; entry mask
                                                   OCFE
                                                                               $Q10_S
                                                                                           FUNC=#IO$_WRITEVBLK,-
P1 = W^TEST_DATA,-
P2 = #BUF_SIZ_S ; write to the mailbo>
#0,W^MBX_BUF,#0,#256,W^MBX_BUF ; zero the MBX_buffer
                                                   ÖCFE
                                                            1184
                                                   OCFE
                                                            1185
                                                   OCFE
                                                            1186
                                                                                                                                            ; write to the mailbox_S
0100 BF
              00
                      2180'CF
                                     00
                                                   0021
                                                            1187
                                                                               MOVC5
                              2180'CF
                                                   OD2A
                                                                              SQIO_S CHAN=W^MBCHANS,-
FUNC=#IO$_READVBLK,-
P1 =W^MBX_BUF,-
P2 =#BUF_SIZ_S

MOVAL W^MBX_BUF,R6

MOVAL W^TEST_DATA,R7

MOVL #BUF_SIZ_S,R8

MOVW W^MBCHANS,W^MBCHAN
CALLS #O,W^BUF_CHECK
$DASSGN_S CHAN=W^MBCHANG,-
FUNC=#IO$_WRITEVBLK,-
                                                   OD2D
                                                            1188
                                                   OD2D
                                                            1189
                                                   OD2D
                                                           1190
                                                   0020
                                                            1191
                                                                                                                                           ; read from the mailbox
                             2180'CF
0365'CF
                      56
57
                                                   0050
                                                            1192
                                                                                                                                           ; set the MBX buffer
                                             DE
                                                   0D55
                                                            1193
                                                                                                                                            ; find the master data
                       00000100 8F
                                             DŌ
                                                   OD5A
                                                            1194
              20FC'CF 2100'CF
FFOD CF 00
                                             BÒ
                                                   0D61
                                                            1195
                                                                                                                                           ; get the channel number
                                             FB
                                                   0D68
                                                            1196
                                                                                                                                           ; check the data
                                                            1197
                                                                                                                                           ; deassign the channel
                                                   0D6D
                                                   0D79
                                                            1198
                                                                                          FUNC=#10$ WRITEVBLK,-
P1 = W^TEST_DATA,-
P2 = #BUF_SIZ_G ; write to the mailbox
#0,W^MBX_BUF,#0,#1024,W^MBX_BUF ; zero the MBX buffer
                                                            1199
                                                   0D79
                                                   0D79
                                                            1200
                                                   0079
                                                            1201
                                                                                                                                           ; write to the mailbox_G
0400 8F
              00
                      2180'CF 00
                                                   0090
                                                            1202
                                                                               MOVC5
```

\$010_\$

RET

CHAN=W^M HANG,-

PUNC=#105 READVBLK,
P1 =W^MBX_BUF,P2 =#BUF_\$1Z_G

MOVAL W^MBX_BUF,R6

MOVAL W^TEST_DATA,R7

MOVI #BUF_\$1Z_G,R8

MOVW W^MBCHANG,W^MBCHAN
CALLS #0,W^BUF_CHECK
\$DASSGN_S CHAN=W*MBCHANG
RFT

FUNC=#IU\$_READVBLK,-

; read from the mailbox

; find the master data

; deassign the channel

; get the channel number

; set the MBX buffer

; check the data

(4)

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 STORE_STEP 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                                           Page
                                ODF5
ODF5
ODF5
ODF5
                                                   .SBTTL STORE_STEP
                                        FUNCTIONAL DESCRIPTION:
                                                  Routine to store step information in the error log buffer.
                          ODF 5
                                          CALLING SEQUENCE:
                          ODF 5
                                                  CALLS #0, W^STORE_STEP
                          ODF 5
                         ODF 5
                                          INPUT PARAMETERS:
                         ODF 5
                                                  ELBP = current errlog buffer pointer
                         ODF 5
                         ODF 5
ODF 5
                                          OUTPUT PARAMETERS:
                                                  FLAG = error logged flag
                         ODF 5
                         ODF 5
                         ODF 5
                         ODF 5
                                                            ^M<R2>
#1,W^FLAG
W^ELBP,R2
W^SERV_NAME,(R2)+
W^CURRENT_TC,(R2)+
W^MODE,(R2)+
R2,W^ELBP
                 0004
                         ODF 5
                                                  .WORD
BISB2
0E62'CF 01
52 0E63'CF
82 2697'CF
82 2063'CF
82 2598'CF
0E63'CF 52
                    88
                         ODF 7
                                                                                                       ; set the error logged flag
                    DO
                         ODFC
                                                  MOVL
                                                                                                       ; get erriog buf patr
                    DÖ
                         0E01
                                                  MOVL
                                                                                                        ; save the service name
                    ĎŎ
                         0E06
                                                  MOVL
                                                                                                       ; save the step number
                    ĎŎ
                         0E 0B
                                                  MOVL
                                                                                                       ; save the mode
                    ĎŎ
                         0E10
                                                  MOVL
                                                                                                       : reset the errlog buf pntr
                         0E15
```

; return

```
SATSSSO7 V04-000 -- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 33 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 35 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 35 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 35 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 35 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 Page 35 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

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-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:56 [UETPSY.SRC]SATSSSO7.MAR;1 (5)

-- SATS SYSTEM SERVICE TESTS (SUC
```

0E16 1258 REG_SAVE:
0FFC 0E16 1259 .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
264F*CF 14 AD 28 28 0E18 1260 MOVC3 #4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program 04 0E1F 1261 RET

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 REG_CHECK 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR:1
                                                                                                                                            Page
                                                                                                                                                    (6)
                                         1263 .SBTTL REG_CHECK
1264 :++
1265 : FUNCTIONAL DESCRIPTION:
1266 : Subroutine to test
1267 : execution. A snaps
                                                         Subroutine to test RO & R2-R11 for proper content after a service execution. A snapshot is taken by the REG_SAVE routine at the
                                                         beginning of each step and this routine is executed after the
                                                         services have been executed.
                                                  CALLING SEQUENCE:
PUSHL #$$$_XXXXXX
                                                                                       ; push expected RO contents
                                                                   #1, W*REG_CHECK ; execute this routine
                                                         CALLS
                                                  INPUT PARAMETERS:
                                                         expected RO contents on the stack
                                                  OUTPUT PARAMETERS:
                                                         possible error messages printed using $PUTMSG
                                         1280
                                  0EŽÕ
                                         1281 :--
                                         1282 .
1283 REG_CHECK:
                                  0ĒŽÕ
                                  0E20
                                  ŎĒ ŽŎ
                           OFFC
                                                          .WORD
                                                                   ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                  0ĒŽŽ
                                          1285
                                                          CMPL
             50
                   04 AC
                                                                   4(AP),R0
                                                                                                           ; is this the right fail code?
                             13
                                  0E26
                                                         BEQL
                                                                                                             br if yes
                                                                   10$
                                  0E 28
                       50
                                          1287
                             DD
                                                         PUSHL
                                                                   R0
                                                                                                           ; push received data
                                  OE 2A
OE 2D
                                          1288
                             DD
                                                                   4(AP)
                                                         PUSHL
                                                                                                           ; push expected data
                 0138
                             DF
                                          1289
                                                                   W^EXP
                       CF
                                                         PUSHAL
                                                                                                           ; push the string variable
           1501'CF
                             FB
                                  ŎĒ31
                                          1290
                       03
                                                                   #3,W^PRINT_FAIL
                                                         CALLS
                                                                                                           ; print the error message
                                  0E36
0E36
                                          1291 10$:
                                         1292
1293
1294
 264F 'CF
             14 AD
                                                          CMPC3
                                                                   #4*10,^X14(FP),W^REG_SAVE_AREA ; check all but RO
                             13
                                  OE 3D
OE 3F
                                                         BEQL
                                                                                                           ; br if O.K.
                                                                   20$
                                                         SUBL3
DIVL2
ADDB3
            0000264F
                       'ŘĒ
56
                                                                   WREG_SAVE_AREA,R3,R6
                                                                                                           ; calculate the register number
                       04 02 03 03
                                         1295
                             (6
81
                 56
                                  0E47
                56
51
53
           7E
                                  OE4A
                                                                   #^X2,R6,-(SP)
                                                                                                           ; set number past RO-R1 and save
                                                         BICL2
                                                                   #3,R1
                             CA
                                  OE4E
                                                                                                           ; backup to register boundrys
                                                                   #3,R3
(R1)
                             CA
                                  0E51
                       61
                             DD
                                  0E54
                                                         PUSHL
                                                                                                           ; push received data
                       63
                             DD
                                  0E 56
                                          1300
                                                         PUSHL
                                                                   (R3)
                                                                                                           ; push expected data
          263D
                                  0E58
                      'CF
                             DF
                                          1301
                                                         PUSHAL
                                                                   WAREG
                                                                                                           ; set string pntr param.
                                         1302
1303 20$:
                             FB
                                  0E5C
                                                                   #4,W^PRINT_FAIL
                                                         CALLS
                                                                                                           : print the error message
                                  0E61
```

0E61

1304

RET

G 13

50

82

F 9 F 8

269F 'CF

2594'CF

ÕŌ

ĊF

03

ŠŎ

AC

D0

DE

1466

146B

1360

1361

MOVL

INSV

MOVAL

FAOF

04

0138

0768

00

82

F 9 A 5

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 REG_CHECKNP 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                  .SBTTL REG_CHECKNP
                          FUNCTIONAL DESCRIPTION:
                                 Subroutine to test RO & R2-R11 for proper content after a service
                                 execution without printing it. A snapshot is taken by the REG_SAVE routine a beginning of each step and this routine is executed after the
                                 services have been executed. This routine collects the error
                                 information in buffer ERLB instead of printing it.
                          CALLING SEQUENCE:
PUSHL #$$$_XXXXXX
                                                             ; push expected RO contents
                                 CALLS
                                          #1,WREG_CHECK ; execute this routine
                          INPUT PARAMETERS:
                                 expected RO contents on the stack
                          OUTPUT PARAMETERS:
                                 possible error messages logged in buffer ERLB which are printed
                                 us ng routine ERLBUF DUMP.
                                 Error packets are in the following form:
                                            Service name pntr
                                                 Step #
                                           Mode name pointer
                                                                 long word count
                                           0E62
                  1339 ;--
           0E62
           0Ē62
                  1341 FLAG:
           0E62
0E63
                                                               error flags are BITO = 0 means no errors in the bu
                                  .BYTE O
                                                                                  BITO = 1 means errors in the buffe
                  1344 ELBP:
1345
           0E63
00000E67'
           0E63
                                  .ADDRESS ERLB
                                                             ; error log buffer pointer
            ŎĒ67
                        ERLB:
00001443
           0E67
                                  .BLKB
                                          1500
                                                             ; error log buffer
                        REG_CHECKNP:
                                           ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
    OFFC
                                  . WORD
                                          4(AP),R0
                                 CMPL
       D1
                                                               is this the right fail code
       13
           1449
                                                               br if yes
                                 BEQL
                                           10$
                                          #0.W^STORE_STEP
ELBP,R2
#3,(R2)+
       FB
                                                              store step information
           144B
                                 CALLS
       DÕ
           1450
                                 MOVL
                                                               get the current error log pointer
       90
           1455
                                                               save the long word count save received status
                                 MOVB
       ĎŎ
           1458
                                           RO,(R2)+
                                 MOVL
                                          4(ÅP),(R2)+
W^EXP,(R2)+
(R2)
       DŎ
           145B
                                 MOVL
                                                               save expected status
       ĎĚ
           145F
                                 MOVAL
                                                               save the string variable
       D4
           1464
                                 CLRL
                                                               set the terminator
                                          R2.ELBP : reset the buffer pointer W^TEST_MOD_FAIL, W^TMD_ADDR ; set failure message address
```

#ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code

```
1363 10$:
                                   1479
1479
                        28
30
                              29
13
                                                                   #4+10,^X14(FP),W^REG_SAVE_AREA; check all but RO and R1
20$; br if OK
  264F 'CF
            14 AD
                                                          CMPC3
                                   1480
                                         1365
                                                          BEQL
                                                          CALLS #0, W^STORE_STEP

MOVL ELBP, R2

MOVB S^#4, (R2)+
                                   1482
1487
            F96E CF
                        ŎŎ
                              FB
                                                                                       ; store step information
                  F9D8 CF
                              DÖ
                                                                                         get current error log buf pointer
                              90
63
                        04
                                   148C
                                                                                         set longword count
             0000264F '8F
                                                          SUBL3
R3,R6
                                                                   WREG_SAVE_AREA, -
                                   148F
                  56
56
                        53
                                   1495
                                                                                       ; calc reg number
                                                                   $^#4,R6
$^#2,R6,(R2)+
(R1),(R2)+
                        04
                                                          DIVLZ
ADDL3
                                   1497
                              63
                                                                                        make it a longword count correct for RO-R1 and save
            82
                  56
                              Č1
                                   149A
                  82 63
263D'CF
                                          1373
                              DO
                                   149E
                                                          MOVL
                                                                                         save received results
                                                                   (R3), (R2)+
                        63
                              DÓ
                                   14A1
                                                          MOVL
                                                                                         save expected results
            82
                              ĎĚ
                                   14A4
                                                          MOVAL
                                                                   W^REG, (R2)+
                                                                                       ; save string variable
                        62
52
                              D4
                                   14A9
                                                          CLRL
                                                                    (R2)
                                                                                       ; set the terminator
            F9B3 CF
                                          1377
                              D0
                                   14AB
                                                                   R2,ELBP
                                                          MOVL
                                                                                         reset the buffer pointer
269F'CF 03
                  076B'CF
                              DE
                                   14B0
                                          1378
                                                                   WATEST MOD FAIL, WATMD ADDR
                                                          MOVAL
                                                                                                         : set failure message address
                                                                   WERROR, WO, W3, W^MOD_MSG_CODE
                  00
                        02
                              FŌ
                                   1487
                                          1379
                                                          INSV
                                                                                                          ; set severity code
                                        1380 20$:
                                   14BE
                              04
                                   14BE
                                          1381
                                                          RET
                                                                                       : bail out
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                                             Page 37
                                                                                                                                                     (8)
                                     .SBTTL NONSUB_SSE

1384 :++

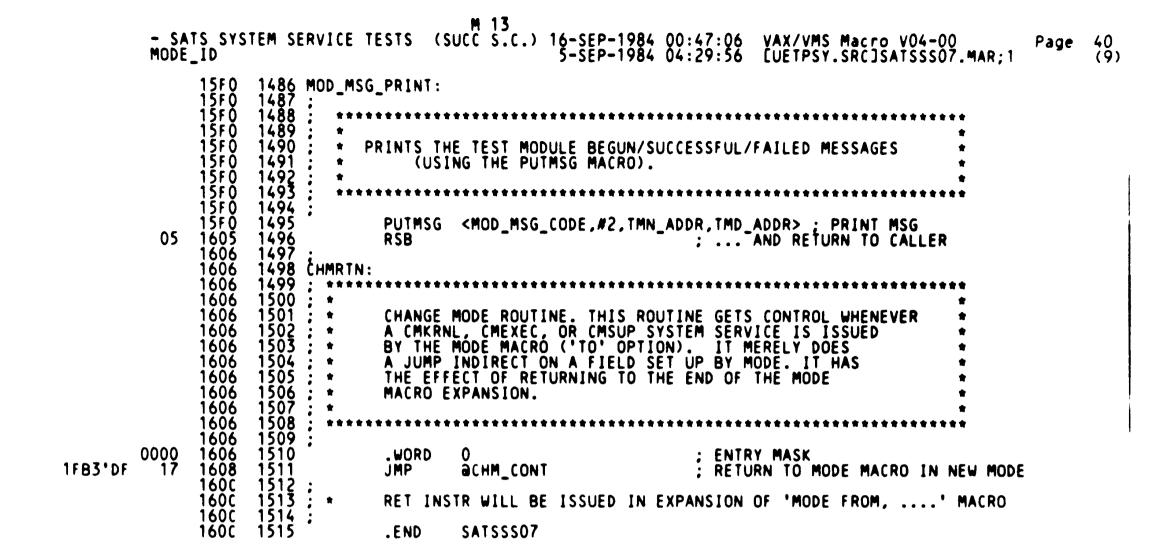
1385 : FUNCTIONAL DESCRIPTION:
1386 : Subroutine to repo
1387 : Subject system ser
1388 :
1389 : CALLING SEQUENCE:
1390 : PUSHL RO
1391 : CALLS #1,NONSUB_
1392 :
1393 : INPUT PARAMETERS:
1394 : 4(AP) = Status cod
                               14BF
                               14BF
                               14BF
                               14BF
                                                       Subroutine to report the failure of a system service which is not the
                               14BF
                                                       subject system service.
                               14BF
                               14BF
                               14BF
                                                                 RŌ ; Save the failure status #1,NONSUB_SSE ; Print the failure message
                               14BF
                               14BF
                               14BF
                               14BF
                                                       4(AP) = Status code of failing system service
                               14BF
                                      1396
1397
1398
1399
                                            : OUTPUT PARAMETERS:
                               14BF
                               14BF
                                                       NONE
                               14BF
                               14BF
                                     1400 NONSUB_SSE:
                               14BF
                                                       OFFC 14BF
                                      1401
                               1401
                                      1403
                               1401
                                                                    MSGLEN = BUFFER_PTR,-
                               1401
                                      14.04
                                                                    BUFADR = BUFFER_PTR,-
                               1401
                                      1405
                                                                    FLAGS = #1
                                                                                                          ; Get just the text of the message
                               14D7
                                      1496
                                                       $FAO_S CTRSTR = NSSSF,-
                               14D7
                                      1407
                                                                 OUTLEN = MESSAGE1L,-
                               14D7
                                      1408
                                                                 OUTBUF = MSG1L,-
                                                                         = #BUFFER PTR
                               14D7
                                      1409
                                                                                                          ; Format the failure message
                                                       MOVW #TEXT_BUFFER, BUFFER_PTR
PUSHAL HESSAGE1L
27BB'CF
            0100 BF
                              14F0
                                      1410
                                                                                                          ; Reset the descriptor length
                         B0
                              14F7
            27B3'CF
                         DF
                                      1411
                                                                                                          : Push the string address
      1501'CF
                         FB 04
                                      1412
                  01
                              14FB
                                                       CALLS
                                                                 #1,PRINT_FAIL
                                                                                                           : Print the failure
```

1500

RET

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 5-SEP-1984 04:29:56
                                                                                                   VAX/VMS Macro V04-00
                                                                                                                                          38
(8)
                                                                                                                                   Page
                                                                                                   [UETPSY.SRC]SATSSS07.MAR:1
                                 1501
1501
1501
                                        1415
                                                       .SBTTL PRINT_FAIL
                                       1416 :++
1417 : FUNCTIONAL DESCRIPTION:
                                        1418
                                                      Subroutine to report failures using $PUIMSG
                                                CALLING SEQUENCE:
                                 1501
                                                               PUSHL EXPECTED Mode PUSHL RECEIVED
                                                                                                    PUSHL REG NUMBER PUSHL EXPECTED
                                                Mode #1
                                                                                           #2
                                                                PUSHAL STRING VAR
CALLS #3,WPRINT_FAIL
                                                                                                    PUSHL RECEIVED
                                                                                                    PUSHAL STRING_VAR
                                 1501
                                                                                                    CALLS #4,W^PRINT_FAIL
                                                                PUSHAL STRING VAR CALLS #1, W^PRINT_FAIL
                                               Mode #3
                                 1501
                                 1501
                                                INPUT PARAMETERS:
                                 1501
                                                       listed above
                                 1501
                                 1501
                                                OUTPUT PARAMETERS:
                                 1501
                                                      an error message is printed using $PUIMSG
                                 1501
                                 1501
                                        1435 ;--
                                 1501
                                 1501
                                             PRINT_FAIL:
                                                                ^M<R2,R3,R4,R5>
                          003C
                                 1501
                                                       $FAO_S W^C$1,W^MESSAGEL,W^MSGL,#TEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
                                 1503
                                        1439
                                                      $PUTMSG_$ WYMSGVEC
                                                                                                      print the message
                                                                (AP),#4
                 04
                                                       CMPB
                                                                                                      is this a register message?
                            13
                       26
                                 1538
                                                       BEQL
                                                                10$
                                                                                                      br if yes
                            91
                 01
                      60
                                                       CMPB
                                                                (AP),#1
                                                                                                      is this just a message?
                            13
                      48
                                 153D
                                                      BEQL
                                                               205
W^CS2,W^MESSAGEL,W^MSGL,4(AP),8(AP),4(AP),12(AP)
                                                                20$
                                        1445
                                                       SFAO_S
                      40
                            11
                                                      BRB
                                                                                                    ; goto output message
                                       1447 105:
                                 1560
                                 1560
                                       1448
                                                      $FAO_S
                                                               W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
                      19
                                 1585
                                                                30$
                            11
                                       1449
                                                      BRB
                                                                                                    ; goto output message
                                 1587
                                       1450 20$:
       25B0'CF
                            D0
                                       1451
                                                                4(AP), W^MSGVEC1+12
                   04 AC
                                 1587
                                                                                                    ; save string address
                                       1452
                                                      $PUTMSG_S WAMSGVECT
                                 158D
                                                                                                    ; print the message
                                 159E
                                                               40$
                      11
                            11
                                                      BRB
                                                                                                    ; skip the other message
                                 15A0
                                        1454 305:
                                                      SPUTMSG_S W^MSGVEC
                                 15A0
                                                                                                    ; print the message
                                 15B1
                                        1456 40$:
                                                               #0, W^MODE ID
W^TEST_MOD_FAIL, W^TMD_ADDR
                                        1457
                                                                                                    ; identify the mode
; set failure message address
           15C5'CF
                                 15B1
                                                      CALLS
                            FB
     269F 'CF
                 076B'CF
                                        1458
                            DE
                                 15B6
                                                      MOVAL
                                                                WERROR, NO. W. MOD_MSG_CODE
2594'CF
                            FŌ
                                        1459
           03
                 00
                      02
                                 15BD
                                                       INSV
                                                                                                    ; set severity code
                            04
                                 1504
                                        1460
                                                       RET
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:47:06 VAX/VMS Macro V04-00 MODE_ID 5-SEP-1984 04:29:56 [UETPSY.SRC]SATSSS07.MAR;1
                                                                                                                              Page 39 (8)
               1462
                                  .SBTTL MODE_ID
                      : FUNCTIONAL DESCRIPTION:
                1464
1465
1466
                                  Subroutine to identify the mode that an exit handler is in.
                          CALLING SEQUENCE:
                                 CALLS NO, W^MODE_ID
                         INPUT PARAMETERS:
                                  MODE contains an address pointing to an ascii string desc.
               1472
1473
1474 : 01
1475 :
1476 :
1477 :--
                                  of the current CPU mode.
                         OUTPUT PARAMETERS:
                                  NONE
       15C5
15C5
15C5
15C5
15C7
               1478
1479 MODE_ID:
                                 .WORD ^M<R2,R3,R4,R5>
$FAO_S W^CS5,W^MESSAGEL,W^MSGL,MODE; format the error message
$PUTMSG_S W^MSGVEC; print the mode message
003C
                1480
                1481
        15DE
15EF
               1482
1483
```



SSARGS SST1 SST2 A A30 A50 ARGLST ARGLST1 BUF BUF1	= 00000001 = 00000004 = 00000001 = 0000001F R 04 00000000 R 02 00000000 R 03 000000073 R 03 00000073 R 03 0000073 R 03 0000073 R 03	ERROR EXESC_CMSTKSZ EXP FLAG GETBUF GRP_PRV_MASK HANDLER_PC HIMSG INFO IOS_READVBLK IOS_WRITEVBLK	= 00000002 ******* X 04 00000138 R 02 00000E62 R 04 00002070 R 03 000001C3 R 02 00000854 R 04 = 00002000 = 00000003 = 00000031
BUFFER PTR BUF CHECK BUF SIZ G BUF SIZ S CHARNEL ZERO CHMRTN CHM_CONT CRE CREATED_FLAG CREMBX CREMBX ACMODE	00000073 R 03 0000278B R 03 0000007A R 04 = 00000100 = 0000016B R 02 00001606 R 04 00001FB3 R 03 00001FB7 R 03 0000000E R 03 = 00000018	LEN 256 DESCR LEN 256 NAME LEN 63 DESCR	= 00000030 00000146 R 02 000001CD R 02 000001D5 R 02 000001E5 R 02 000001DD R 02 ******* X 04 00000004 R 03 00000154 R 02 00000164 R 02 00000175 R 02 00000185 R 02
CREMBX\$_ACMODE CREMBX\$_BUFQUO CREMBX\$_CHAN CREMBX\$_LOGNAM CREMBX\$_MAXMSG CREMBX\$_NARGS CREMBX\$_PRMFLG CREMBX\$_PROMSK CS1 CS2 CS3 CS4	= 00000010 = 00000008 = 0000001C = 00000007 = 00000004 = 00000014 0000000F R 02 00000041 R 02 0000006E R 02 000000A1 R 02	LOMSG MBA MBBUF MBCHAN MBCHAND MBCHANG MBCHANS 2 MBCHAR 2 MBCHAR 2 MBCHAR 2 MBCHAR 3	= 00000001 00000305 R 02 = 00000400 000020FC R 03 00002102 R 03 00002100 R 03 00002100 R 03 0000210C R 03 00002180 R 03 00002180 R 03 00002783 R 03 00002783 R 03 00002580 R 03 00002580 R 03 00002598 R 03 00002598 R 03
CS5 CTL\$GW_CHINDX CTRSTR CURRENT_TC DCLCMH DEL	000000C7 R 02 ******* X 04 00001FD7 R 03 00002063 R 03 00000119 R 02 00002068 R 03 00000120 R 02 = 00000004 = 00000001 = 00000074 = 0000000C	MESSAGEL ML MODE MODE MODE MODE	000027B3 R 03 00002580 R 03 0000258C R 03 00002598 R 03 000015C5 R 04 00002594 R 03 000015F0 R 04 00000310 R 02 000026AB R 03 0000259C R 03 0000259C R 03 0000259C R 03 000025A4 R 03 000025A4 R 03 000014BF R 04 000000DC R 02 000025B4 R 03
DELMBXS_CHAN DELMBXS_NARGS DIBSK_LENGTH DIBSW_UNIT DIBSW_VPROT DISABLE DSC\$K_CLASS_S DSC\$K_DTYPE_T D_EQUIV_NAME D_LOGIC_NAME D_MBX_LOGIC_NAME ELBP EM ENABLE	= 00000018 = 000000001 = 0000000E 000002F5 R 02 000002FD R 02 000002FD R 02 00000E63 R 04 00000127 R 02	NONSUB_SSE NSSSF PB PR\$ USP PRINT_FAIL PRIVMASK PRM_PRV_MASK PROT PRV\$V GRPNAM	= 00000003 00001501 R 04 00002630 R 03 000001B3 R 02 0000034A R 02 = 00000003
EQUIV_NAME ERLB ERLBUF_DUMP	00000009 R 03 00000E67 R 04 00000C3D R 04	PRV\$VTPRMMBX PRV\$VTMPMBX PRVHND1	= 0000000B = 0000000f 00002638 R 03

```
SATSSS07
Psect synopsis
```

Psect synopsis!

PSECT name	Allocation	PSECT No.	Attributes		
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON	ABS LCL NOSHR NOEXE NORD NOWE	
SABSS RODATA	00000000 (0.) 000007A2 (1954.)	01 (1.)	NOPIC USR CON NOPIC USR CON	ABS LCL NOSHR EXE RD WR REL LCL NOSHR NOEXE RD NOWR	
RWDATA SATSSS07	000027C3 (10179.) 0000160C (5644.)	03 (3.)	NOPIC USR CON NOPIC USR CON	REL LCL NOSHR NOEXE RD WR REL LCL NOSHR EXE RD WR	IT NOVEC LONG

Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	. 31	00:00:00.10	00:00:00.35
Command processing	108 609	00:00:00.66 00:00:25.28	00:00:02.28 00 00:36.31
Symbol table sort	0	00:00:02.46	00:00:02.79
Pass 2 Symbol table output	309 26	00:00:06.60 00:00:00.19	00:00:08.51 00:00:00.19
Psect synopsis output	5	00:00:00.02 00:00:00.00	00:00:00.03 00:00:00.00
Cross-reference output Assembler run totals	1087	00:00:35.32	00:00:50.46

The working set limit was 1950 pages.
168419 bytes (329 pages) of virtual memory were used to buffer the intermediate code.
There were 80 pages of symbol table space allocated to hold 1495 non-local and 38 local symbols.
1515 source lines were read in Pass 1, producing 41 object records in Pass 2.
61 pages of virtual memory were used to define 57 macros.

! Macro library statistics !

Macro library name	Macros defined
\$255\$DUA28:[SYSLIB]STARLET.MLB,2	43
\$255\$DUA28:[SHRLIB]UETP.MLB;1	11
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0
TOTALS (all libraries)	54

1756 GETS were required to define 54 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSSO7/OBJ=OBJ\$:SATSSSO7 MSRC\$:SATSSSO7/UPDATE=(ENH\$:SATSSSO7)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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